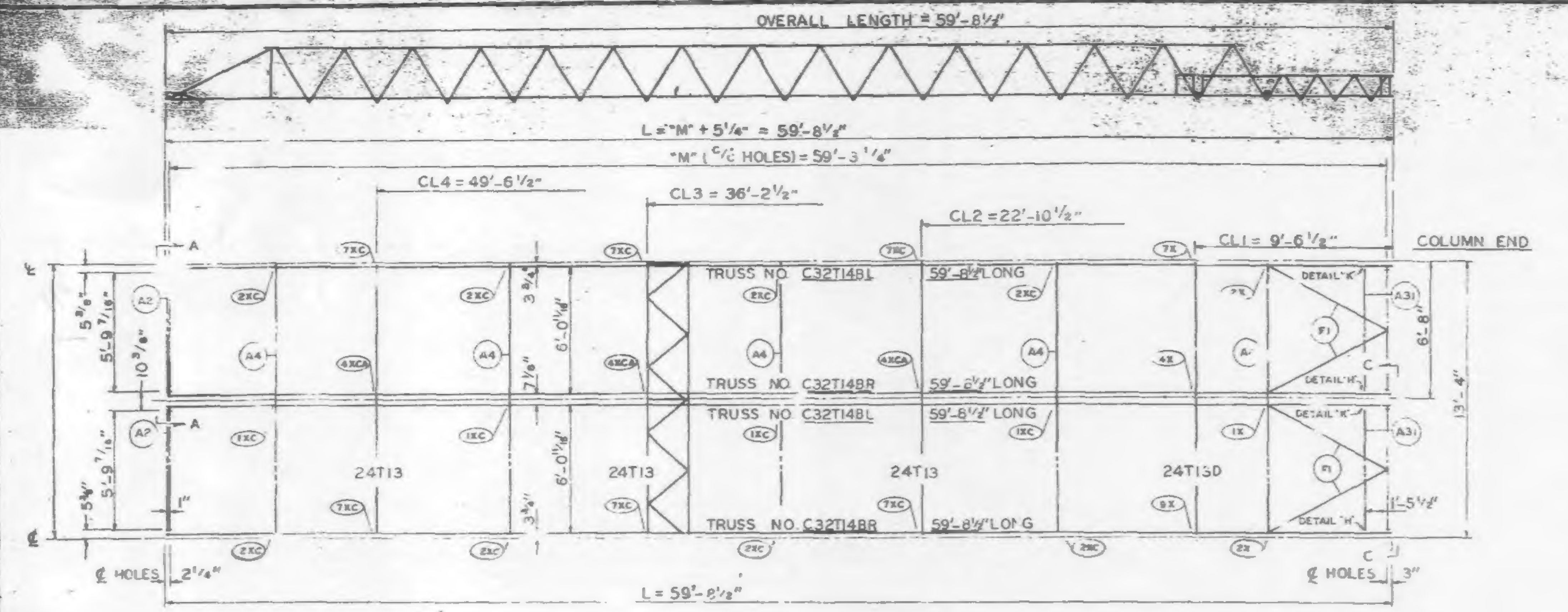
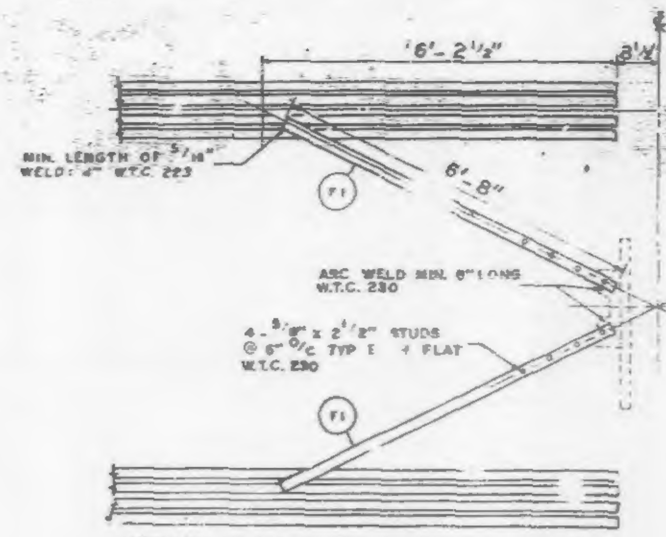
0800-0899

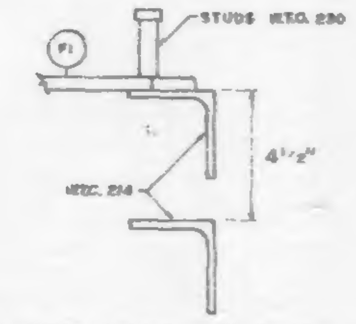
WTC1-131-LERA



PANEL NO. B7B SIZE 13'-4" x 59'-3½"



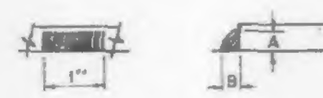
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.

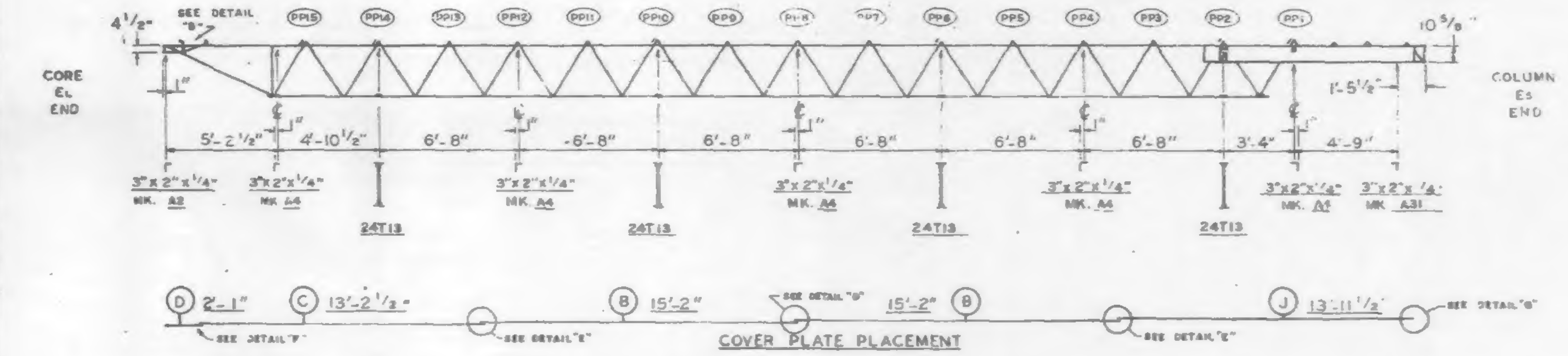


CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

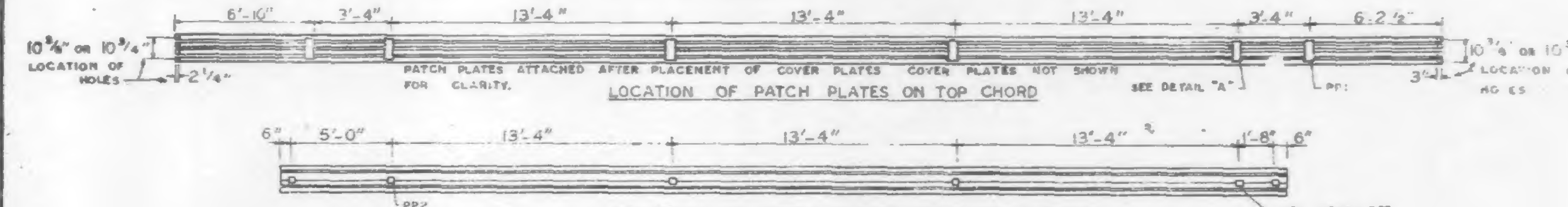
REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14BL	2	C32T14BL x 59'-8½"	ST 214BL
	T14BR	2	C32T14BR x 59'-8½"	ST 214BL
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	BT 213
	T13D	1	24T13D x 13'-3"	BT 213D
3"x 2"x ¼" ANGLE	A2	2	3"x2"x¼"x5'-11⁹⁄₁₆"	ST 403
	A4	5	3"x2"x¼"x13'-3"	ST 403
	A31	2	3"x2"x¼"x5'-8⅛"	ST 410
CLOSURE PLATES	PF-11	2	3"x¼"x0'-2⅜"	ST 412
DIAGONAL FLATS	F1	4	1½"x⅝"x6'-8"	ST 402
PATCH PLATES	PP1	12	2"x¼"x0'-9"	ST 400
	PP2	12	3"x⅜"x0'-3"	ST 400
COVER PLATES	B	4	9"x.0135"x15'-2"	ST 303
	C	2	9"x.0135"x13'-2½"	ST 303
	D	2	9"x.0135"x2'-1"	ST 303
	J	2	9"x.0135"x13'-11½"	ST 304
ANGLE CLIPS	C1	16	2"x1½"x.25"x6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3½"x⅜"x0'-6½"	ST 400
	P2	4	4½"x.39"x0'-9"	ST 400
	P3	4	4½"x.39"x1'-0"	ST 400
	P9	4	3"x½"x1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 50 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x¼" FULL THROAT FILLET.



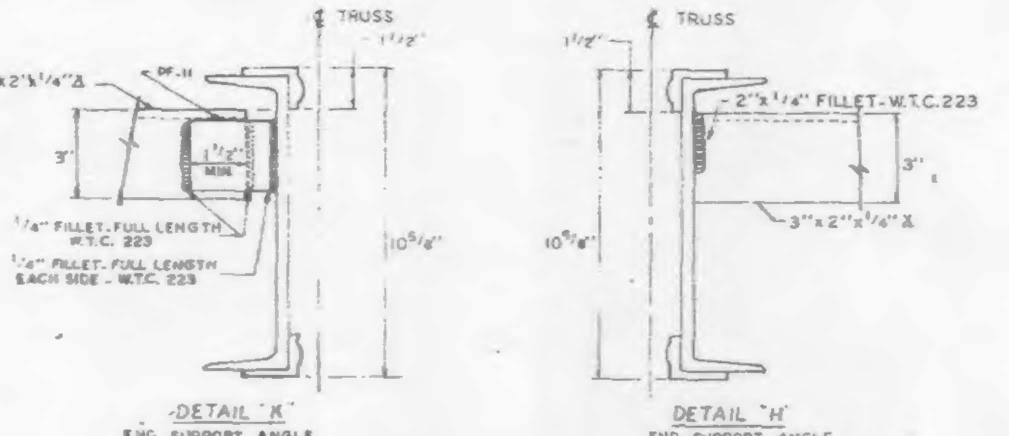


COVER PLATE PLACEMENT



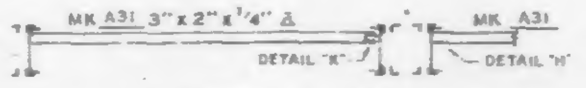
LOCATION OF PATCH PLATES ON TOP CHORD

LOCATION OF PATCH PLATES ON BOTTOM CHORD



DETAIL "K" END SUPPORT ANGLE ATTACHMENT

DETAIL "H" END SUPPORT ANGLE ATTACHMENT

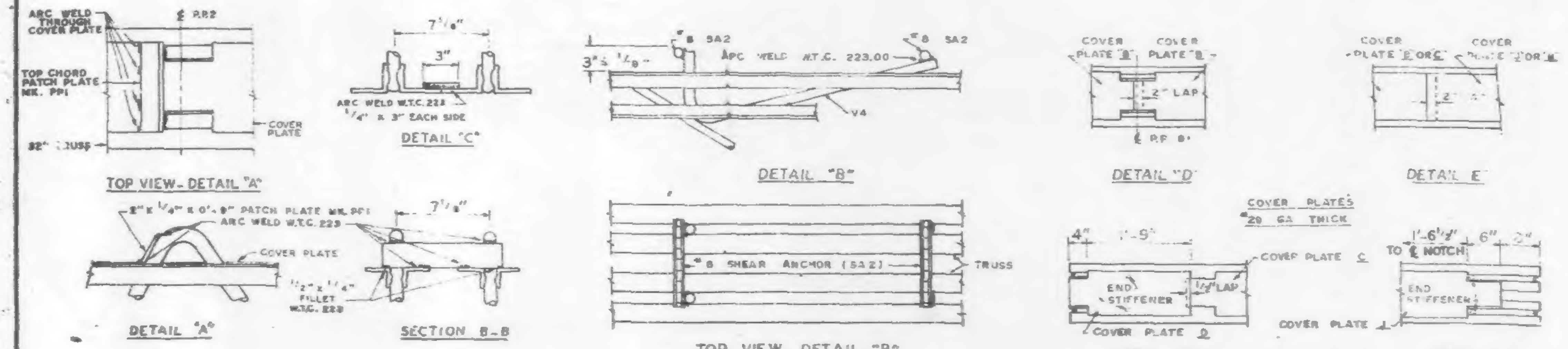


SECTION C-C END SUPPORT ANGLE

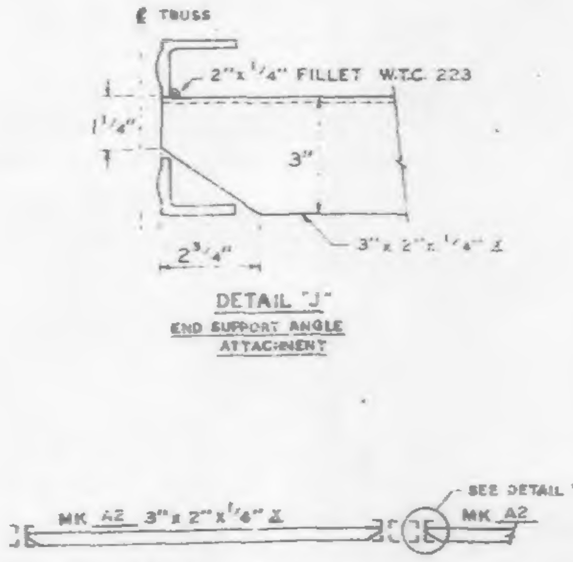
NO.	DATE	REVISION	BY

REE DRWG.		
	7-AB3-26	10-4-68
	7-AB1-13	10-4-68
	7-AB2-8	7-22-68
	7-AB4-28	7-22-68
	SB-124	3-24-69
	7-AB3-24	8-15-68

Void



FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00



DETAIL "J" END SUPPORT ANGLE ATTACHMENT

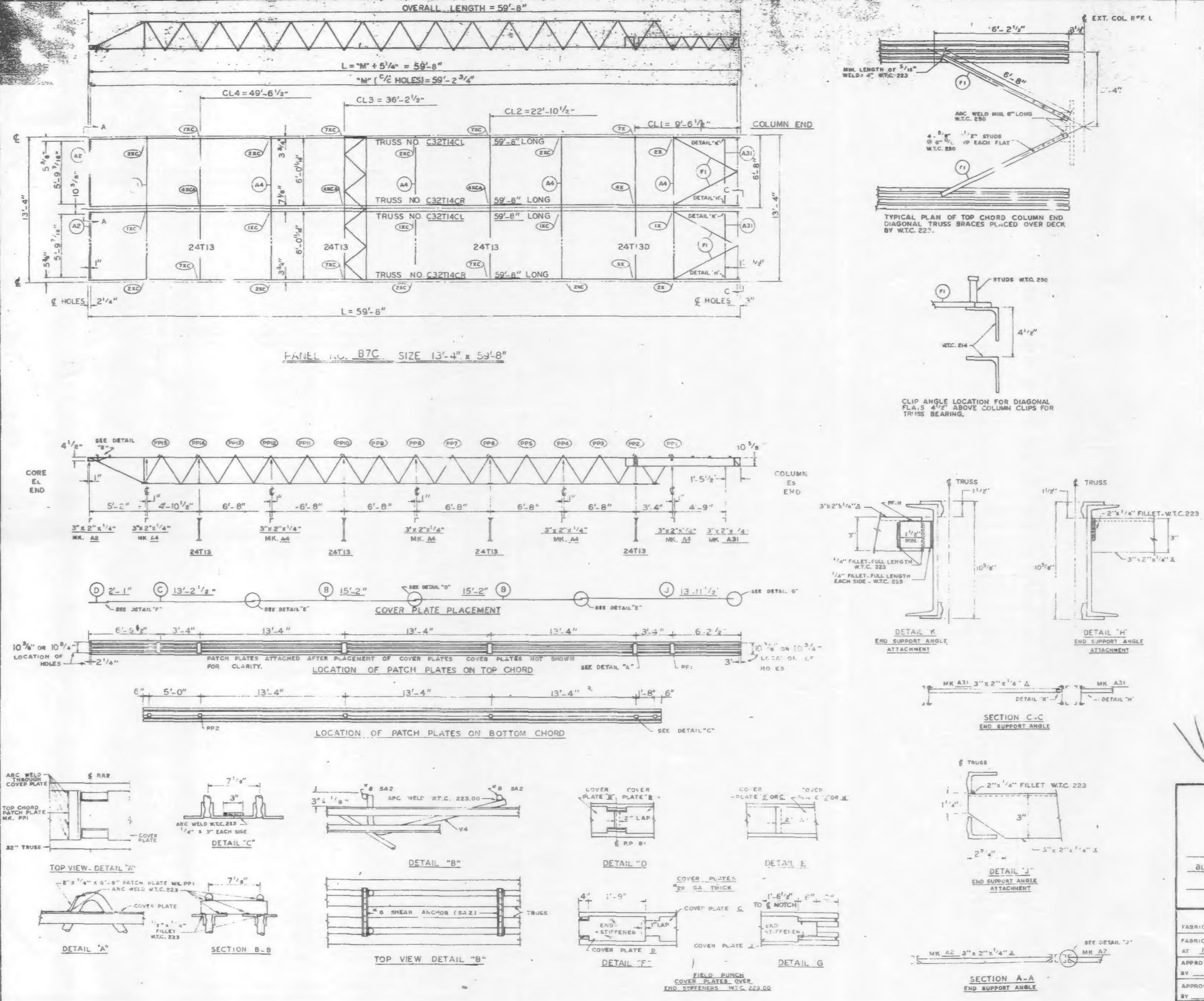
SECTION A-A END SUPPORT ANGLE

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 92 (WEST)

PANEL B7B - 13'-4" x 59'-8½"

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-26	PLATE
APPROVED FOR FABRICATION BY ____ FOR P.O.N.Y.A.	DATE	DRAWN BY [illegible] DATE MAY 8, 1959	
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR	DATE	CHECKED BY T.N. CHUBA DATE MAY 8, 1969	IN CHARGE OF PROD. DEV.
DETAIL [illegible]		FABRICATION CONT NO W.T.C. 221	SHEET NO FP B7B



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T14CL	2	C32T14CL x 59'-8"	ST 214CL
	T14CR	2	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T13	3	24T13 x 13'-3"	BT 213
	T13D	1	24T13D x 13'-3"	BT 213D
3" x 2" x 1/4" ANGLE	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A4	5	3" x 2" x 1/4" x 13'-3"	ST 403
	A31	2	3" x 2" x 1/4" x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	2	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-9"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
	J	2	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2" x 1 1/2" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400
	P9	4	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

REF. DRWG.

7-AB3-26	10-4-68
7-AB1-13	10-4-68
7-AB2-8	7-22-68
7-AB4-28	7-22-68
SB-124	3-24-69
7-AB3-24	8-15-68

VOID

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. B FLOORS 59 & 92 (EAST)

PANEL B7C - 13'-4" x 59'-8"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO 7-AB3-26 PLATE

APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE

DRAWN BY L.R. DATE MAY 6, 1969

APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE

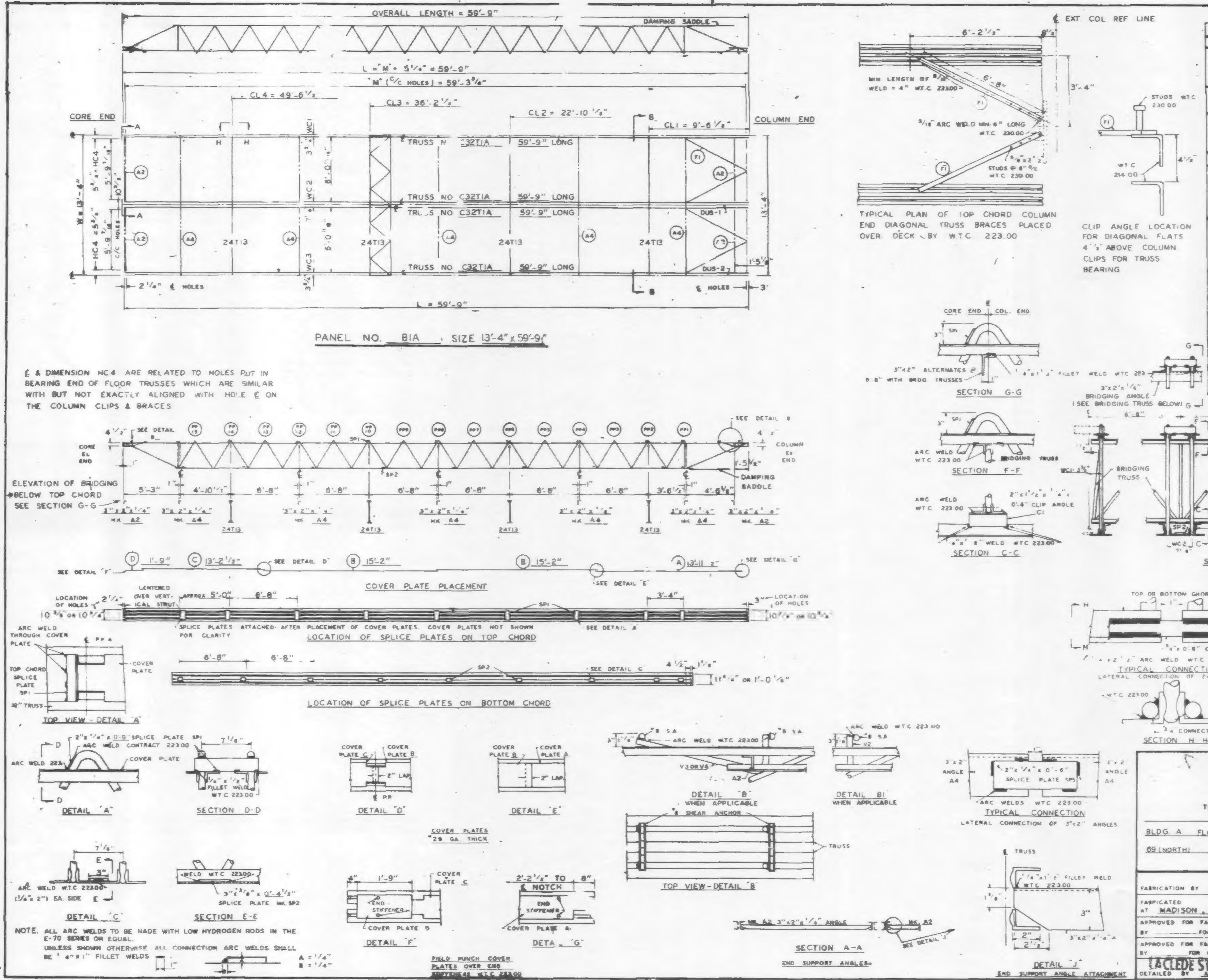
CHECKED BY T.M. CHURA DATE MAY 6, 1969

IN CHARGE OF PROD. DEV.

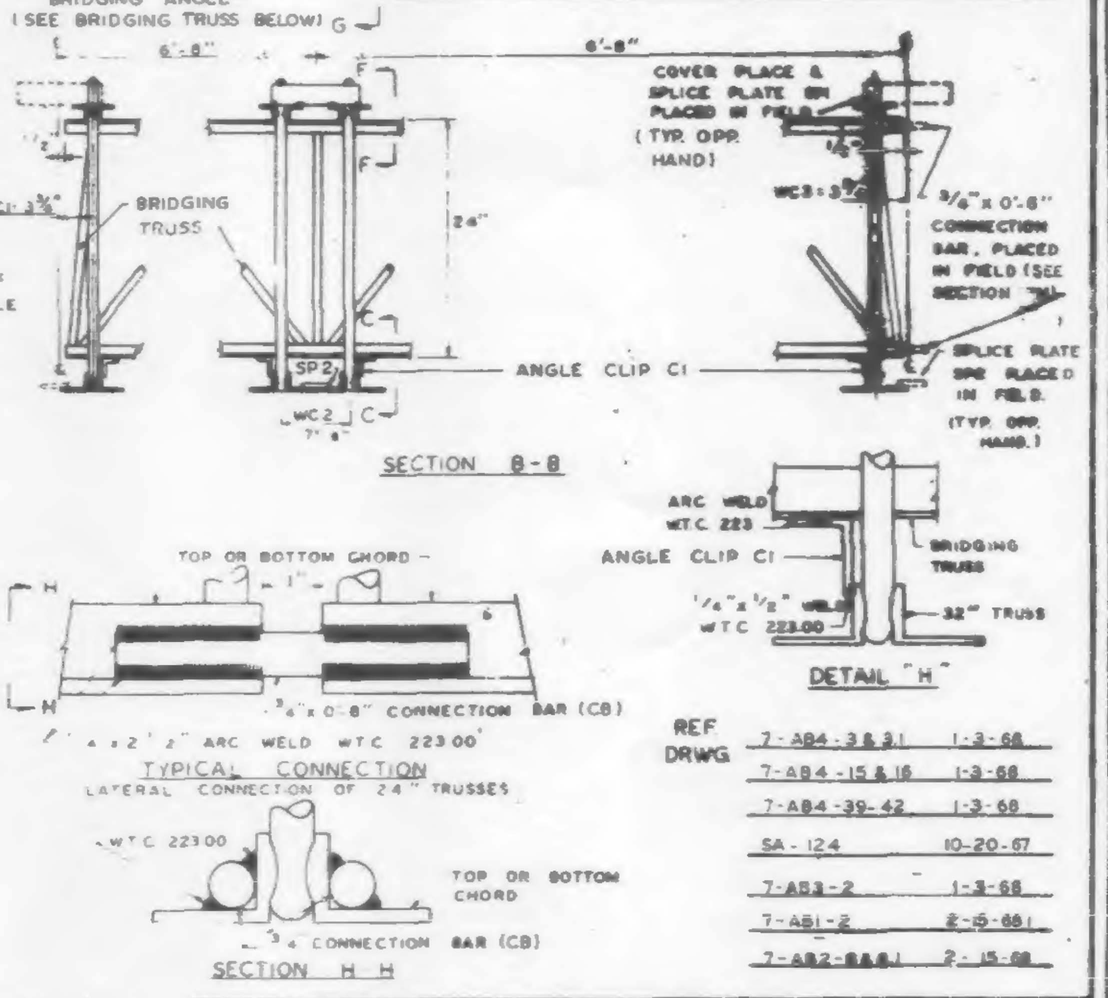
DETAILED BY LACLEDE STEEL CO.

FABRICATION CONT NO W.T.C. 221

SHEET NO FP B7C



NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FILLET WELDS



REQUIRED MATERIAL PER PANEL				
MATERIAL	MK.	PCS.	[illegible]	D[illegible]
FLOOR TRUSSES	T1A	4	C32T1A - [illegible]'-9"	ST201A
BRIDGING TRUSSES	T13	2	[illegible]13 - [illegible]'-8"	[illegible]211
3"x2"x1/4" ANGLE	A2	4	3"x2"x[illegible] -5'-11 5/16"	ST400
	A4	5	3"x2"x1/4 x 13'-[illegible]"	ST400
DIAGONAL FLATS	F1		1 1/2" x 5/8" x 6'-8"	ST400
SPLICE PLATE	SP1	[illegible]	2" x 1/4" x 0'-9"	CD201
	SP2	18	3" x 3/8" x 0'-4 1/2"	CD201
	SP5	5	2" x 1/4" x 0'-8"	CD201
COVER PLATES	A	2	9" x .0135" x 13'-11 1/2"	ST303
	B	4	9" x .0135" x 15'-2"	ST303
	C	2	9" x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 1'-9"	ST303
ANGLE CLIPS	C1	16	3"x2"x1/4" x 0'-8"	CD201
#8 SHEAR ANCHOR	SA	8	#8 REBAR x 0'-9"	CD201
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x 3/8"x 3'-7 3/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x 3/8"x 3'-7 3/8"	ST2[illegible]
CONNECTION BAR	CB	16	3/4" ø x 0'-9"	CD201

REF DRWG

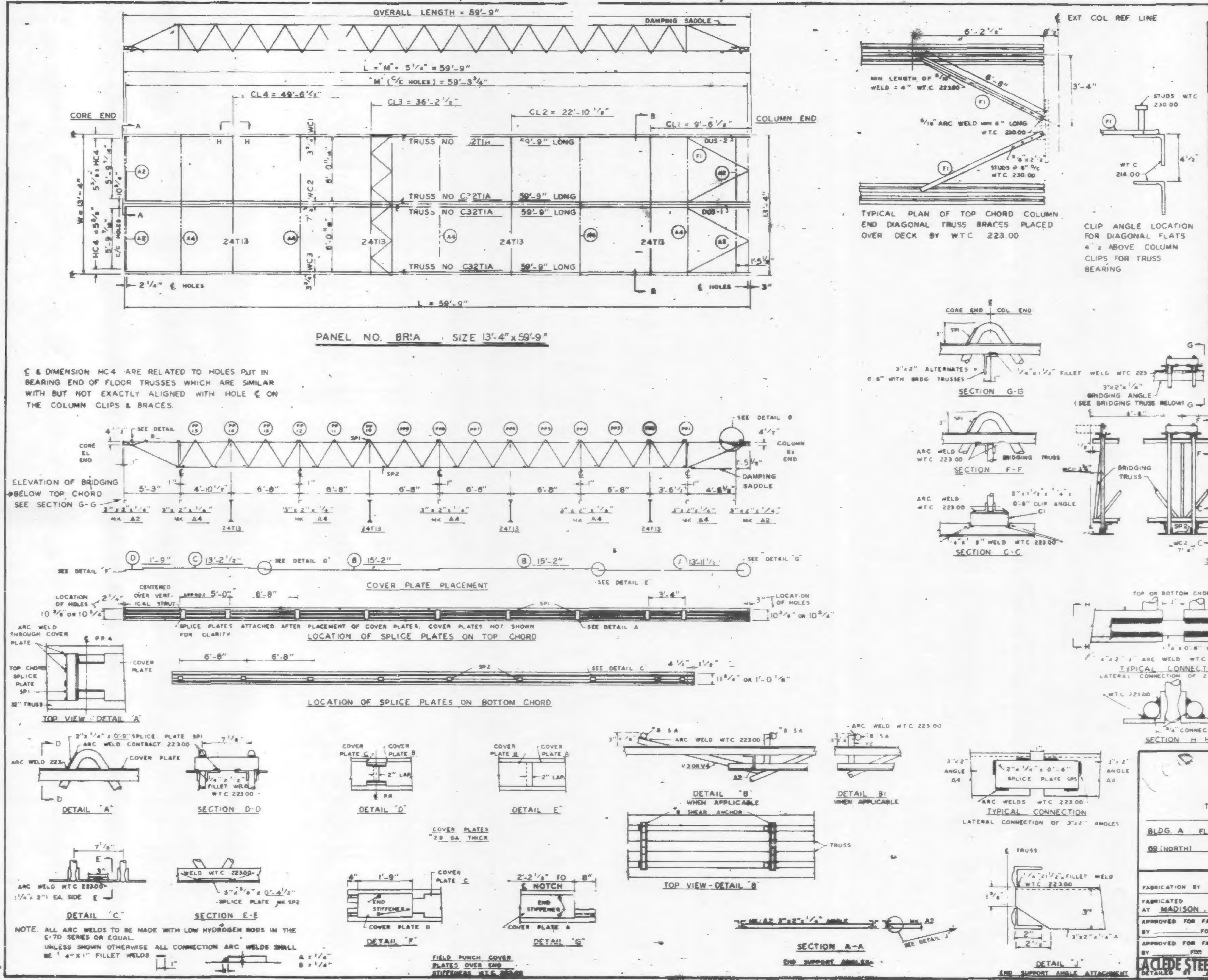
7-AB4-3 & 31	1-3-68
7-AB4-15 & 16	1-3-68
7-AB4-39-42	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-8A&1	2-15-68

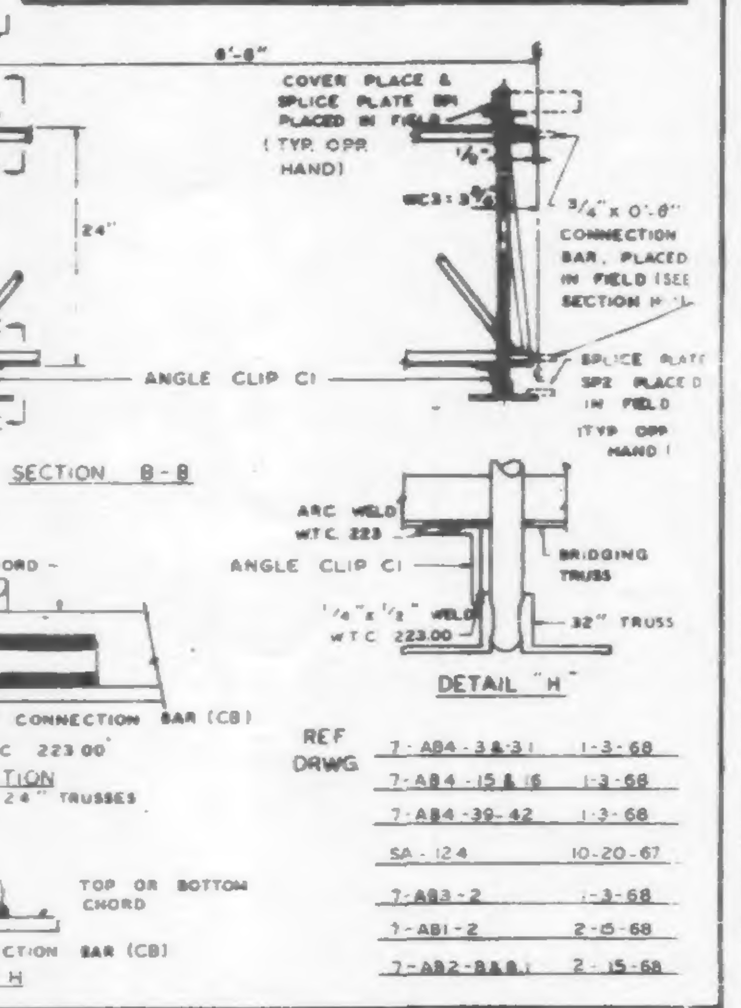
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-38 (NORTH & SOUTH); 49-58, 60-66, 68
69 (NORTH) PANEL B1A - 13'-4" x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING [illegible] 7-AB3-5 2-15-68	PLATE
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A.	DATE	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR	DATE	CHECKED BY A.B.[illegible] DATE FEB 24, 1968	IN CHARGE OF [illegible]
LACLEDE STEEL CO. DETAILED BY A.C. [illegible]		FABRICATION CONT. NO. W.T.C. 221	SHEET NO FP B1A





REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	TIA	4	C32TIA - 59'-9"	ST201A
BRIDGING TRUSSES	TI3	4	3 - 18'-3"	ST 11
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4" x 0'-11 5/16"	ST 400
	A4	5	3"x2"x1/4" x 13'-3"	ST400
DIAGONAL FLATS	F1	2	1 1/2"x 5/8"x 6'-8"	ST400
SPLICE PLATES	SP		2"x 1/4" x 0'-9"	CD201
	SP2	18	3"x 3/8"x 0'-4 1/2"	CD201
	SP5	5	2"x 1/4"x 0'-6"	CD201
COVER PLATES	A	2	9"x .0135"x 13'-11 1/2"	ST303
	B	4	9"x .0135" x 15'-2"	ST303
	C	2	9"x .0135" x 13'-2 1/2"	ST303
	D	2	9"x .0135" x 1'-9"	ST303
ANGLE CLIPS	C1	16	3"x2"x1/4"x 0'-6"	CD201
#8 SHEAR ANCHOR	SA	8	#8 REBAR x 0'-9"	CD201
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x 3/8"x 3'-7 3/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x 3/8"x 3'-7 3/8"	ST298
CONNECTION BAR	CB	16	3/4"⌀ x 0'-9"	CD201

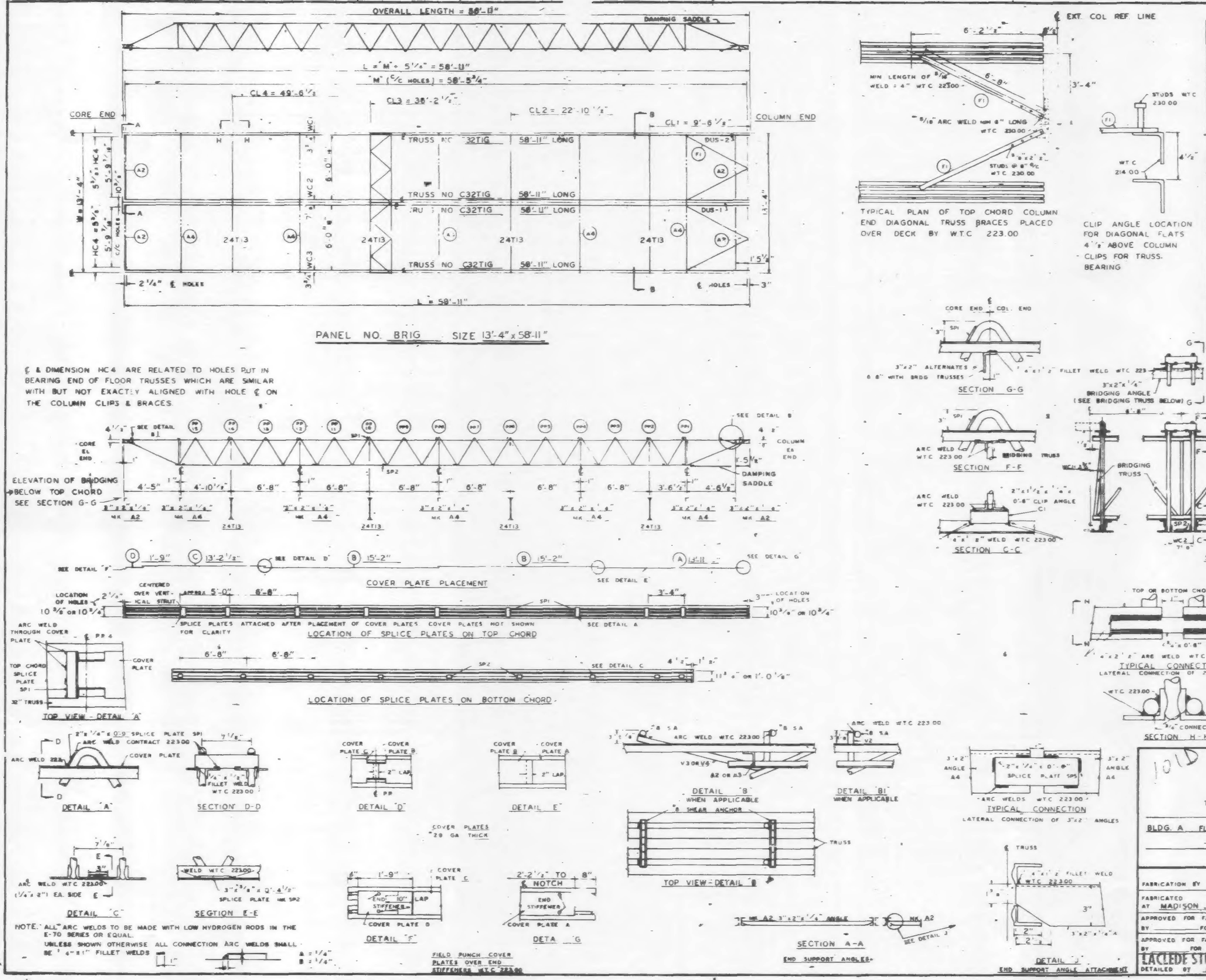
REF DRWG	
7-AB4-3 & 31	1-3-68
7-AB4-15 & 16	1-3-68
7-AB4-39-42	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-8 & 8.1	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 12-24, 26-38 (NORTH & SOUTH); 49-58, 60-66, 68
69 (NORTH) PANEL B1A - 13'-4" x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-6 2-15-68 PLATE	
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A.	DATE	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE FEB 24, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A.C. [illegible]		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP BR1A



REQUIRED MATERIAL [illegible]				REF DRWG
MATERIAL	[illegible]	[illegible]	[illegible]	
FLOOR TRUSSES	[illegible]	4	C32TIG - [illegible]'-11"	ST201G
BRIDGING TRUSSES	T13	4	T13 - [illegible]	T211
3"x2"x1/4" ANGLE	A2	4	3"x2"x1/4" x 5'-11 5/16"	ST400
	A4	5	3"x2"x1/4" x 13'-[illegible]"	ST400
DIAGONAL FLATS	F1		1 1/2"x 5/8" x 6'-[illegible]"	ST400
SPLICE PLATES	SP1		2"x1/4" x 0'-9"	CD201
	SP2	18	3"x 3/8" x 0'-4 1/2"	CD201
	SP5	5	2"x1/4" x 0'-8"	CD201
COVER PLATES	A	2	9"x.0135"x 13'-11 1/2"	ST303
	B	4	9"x.0135"x 15'-2"	ST303
	C	2	9"x.0135"x 13'-2 1/2"	ST303
	D	2	9"x.0135"x 1'-9"	ST303
ANGLE CLIPS	C1	18	3"x2"x1/4" x 0'-6"	CD201
#8 SHEAR ANCHOR	SA	6	#8 REBAR x 0'-9"	CD201
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x 3/8" x 3'-7 3/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x 3/8" x 3'-7 3/8"	ST298
CONNECTION BAR	CB	16	3/4" ø x 0'-9"	CD201

REF DRWG

7-AB4-3 & 21	1-3-68
7-AB4-15 & 18	1-3-68
7-AB4-39-42	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-8A8.1	2-15-68

101D

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10,11 & 39 (NORTH) 39 & 40 (SOUTH)

PANEL BRIG - 13'-4" x 58'-11"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-5 2-[illegible] PLATE

APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE ______

DRAWN BY [illegible] DATE FEB 24, 1968

APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE ______

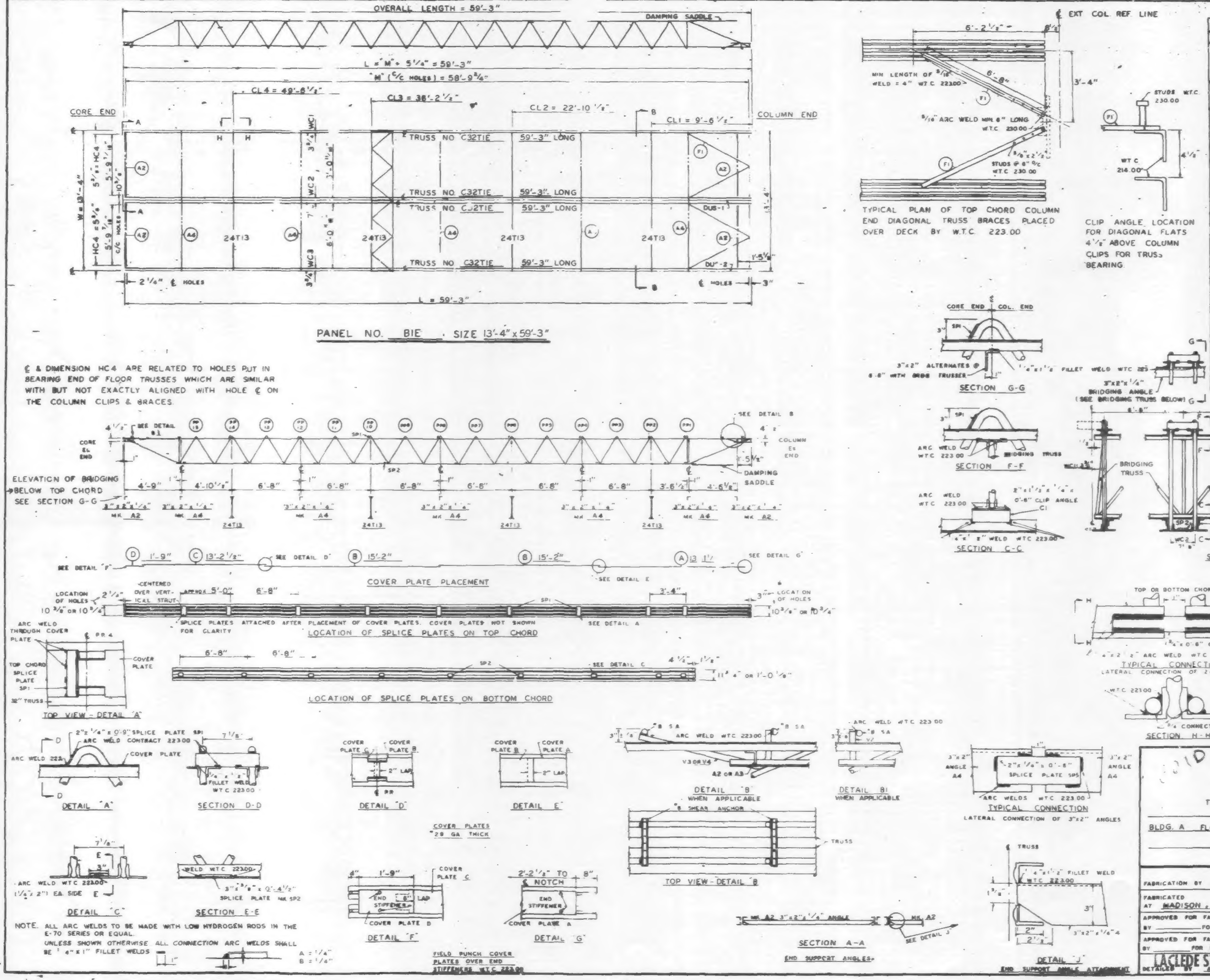
CHECKED BY J.R. PAUL DATE FEB 24, 1968 IN CHARGE OF PROD. DEV

LACLEDE STEEL CO. DETAILED BY A.C. WEBER

FABRICATION CONT. NO. W.T.C. 221

SHEET NO. FP BRIG

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FILLET WELDS



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIE	4	C32TIE - 59'-3"	ST201E
BRIDGING TRUSSES	T18	4	[illegible] 3 - 13'-8"	ST211
3"x2"x1/4" ANGL		4	3"x2"x1/4" x 11 5/16"	ST400
	A4	5	3"x2"x x 13'-3	ST400
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 8'-8	ST400
SPLICE PLATES	SP1		2"x 1/4" x 0'-9"	CD201
	SP2	18	3"x 3/8"x 0'-4 1/2"	CD201
	SP5	5	2"x 1/4"x 0'-6"	CD201
COVER PLATES	A	2	9"x .0135"x 13'-11 1/2"	ST303
	B	4	9"x .0135" x 15'-2"	ST303
	C	2	9"x .0135" x 13'-2 1/2"	ST303
	D	2	9"x .0135" x 1'-9"	ST303
ANGLE CLIPS	C1	16	3"x2"x1/4" x 0'-6"	CD201
#8 SHEAR ANCHOR	SA	6	#8 REBAR x 0'-9"	CD201
DAMPING · SADDLE	DUS-1	1	3 1/2"x3 1/2"x 3/8"x 3'-7 3/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x 3/8"x 3'-7 3/8"	ST298
CONNECTION BAR	CB	16	3/4" ø x 0'-9"	CD201

REF DRWG	
7-AB4-3 & 31	1-3-68
7-AB4-15 & 16	1-3-68
7-AB4-39-42	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-B&B1	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11 (NORTH & SOUTH)

PANEL B1E - 13'-4" x 59'-3"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING 7-AB3-5 2-15-68 PLATE

APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE

DRAWN BY ______ DATE FEB 24, 1968

APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE

CHECKED BY ______ DATE FEB 24, 1968

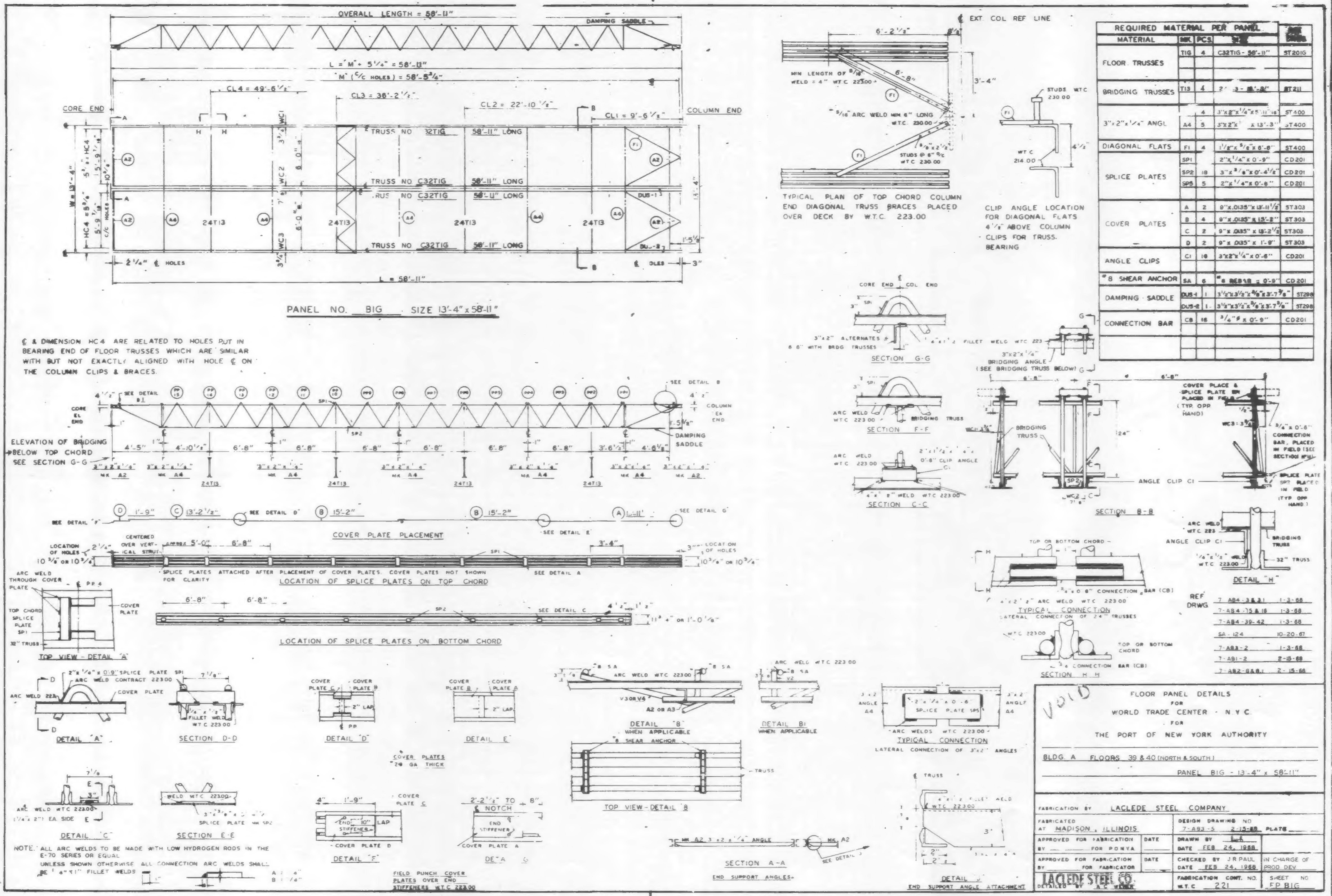
IN CHARGE OF

LACLEDE STEEL CO.

DETAILED BY A.C. ______

FABRICATION CONT. NO. W.T.C. 221

SHEET NO. B1E



REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	REF. DWGS.
FLOOR TRUSSES	TIG	4	C32TIG - 58'-11"	ST201G
BRIDGING TRUSSES	T13	4	2 .3 - [illegible]	ST211
3"x2"x1/4" ANGL		4	3"x2"x1/4"x5'-11 1/16"	ST400
	A4	5	3"x2"x [illegible] x 13'-3"	ST400
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST400
SPLICE PLATES	SP1		2"x 1/4" x 0'-9"	CD201
	SP2	18	3"x 3/8"x 0'-4 1/2"	CD201
	SP5	5	2"x 1/4"x 0'-6"	CD201
COVER PLATES	A	2	9"x.0135"x 13'-11 1/2"	ST303
	B	4	9"x.0135" x 15'-2"	ST303
	C	2	9"x .0135" x 13'-2 1/2"	ST303
	D	2	9" x .0135" x 1'-9"	ST303
ANGLE CLIPS	C1	16	3"x2"x1/4" x 0'-6"	CD201
#8 SHEAR ANCHOR	SA	6	#8 REBAR x 0'-9"	CD201
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x 3/8"x 3'-7 3/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x 3/8"x 3'-7 3/8"	ST298
CONNECTION BAR	CB	16	3/4" ⌀ x 0'-9"	CD201

REF DRWG

7-AB4-3 & 31	1-3-68
7-AB4-15 & 18	1-3-68
7-AB4-39-42	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-6 & 8.1	2-15-68

VOID

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 39 & 40 (NORTH & SOUTH)

PANEL BIG - 13'-4" x 58'-11"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO 7-A93-5 2-15-68 PLATE

APPROVED FOR FABRICATION BY ____ FOR P.O.N.Y.A. DATE ____

DRAWN BY [illegible] DATE FEB 24, 1968

APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE ____

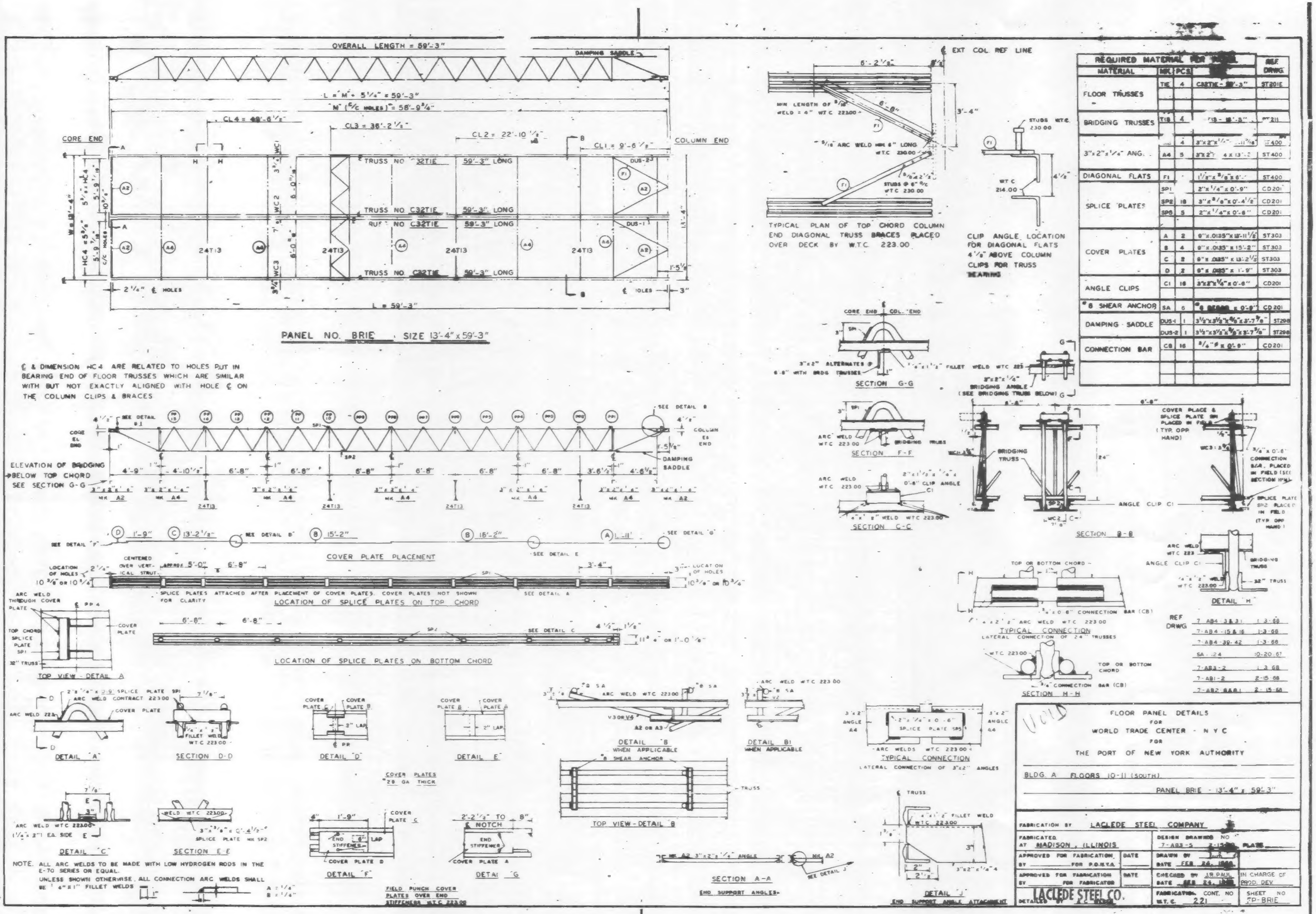
CHECKED BY J.R. PAUL DATE FEB 24, 1968

IN CHARGE OF PROD DEV

LACLEDE STEEL CO. DETAILED BY A.C. W[illegible]

FABRICATION CONT. NO. W.T.C. 221

SHEET NO FP BIG



REQUIRED MATERIAL FOR [illegible]				REF. DRWG.
MATERIAL	MK.	PCS	[illegible]	
FLOOR TRUSSES	TIE	4	C32TIE - 59'-3"	ST201E
BRIDGING TRUSSES	T18	4	T18 - 18'-3"	ST211
3"x2"x1/4" ANG.		4	3"x2"x1/4" - [illegible] 11 5/16"	ST400
	A4	5	3"x2"x1/4" x 13'-2	ST400
DIAGONAL FLATS	F1		1 1/2"x 3/8"x 6'-[illegible]	ST400
SPLICE PLATES	SP1		2"x 1/4" x 0'-9"	CD201
	SP2	18	3"x 3/8"x 0'-4 1/2"	CD201
	SP5	5	2"x 1/4"x 0'-6"	CD201
COVER PLATES	A	2	9"x .0135"x 18'-11 1/2"	ST303
	B	4	9"x .0135" x 15'-2"	ST303
	C	2	9"x .0135" x 13'-2 1/2	ST303
	D	2	9"x .0135" x 1'-9"	ST303
ANGLE CLIPS	C1	16	3"x3"x1/4"x 0'-6"	CD201
#6 SHEAR ANCHOR	SA	6	#6 [illegible] x 0'-9"	CD 201
DAMPING SADDLE	DUS-1	1	3 1/2"x3 1/2"x 3/8"x 3'-7 3/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x 3/8"x 3'-7 3/8"	ST298
CONNECTION BAR	CB	16	3/4"⌀ x 0'-9"	CD201

REF DRWG

7-AB4-3 & 31	1-3-68
7-AB4-15 & 16	1-3-68
7-AB4-39, 42	1-3-68
SA-.24	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-8AB1	2-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 10-11 (SOUTH)

PANEL BRIE - 13'-4" x 59'-3"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO 7-AB3-5 PLATE

APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE ______

DRAWN BY [illegible] DATE FEB. 24, 19[illegible]

APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE ______

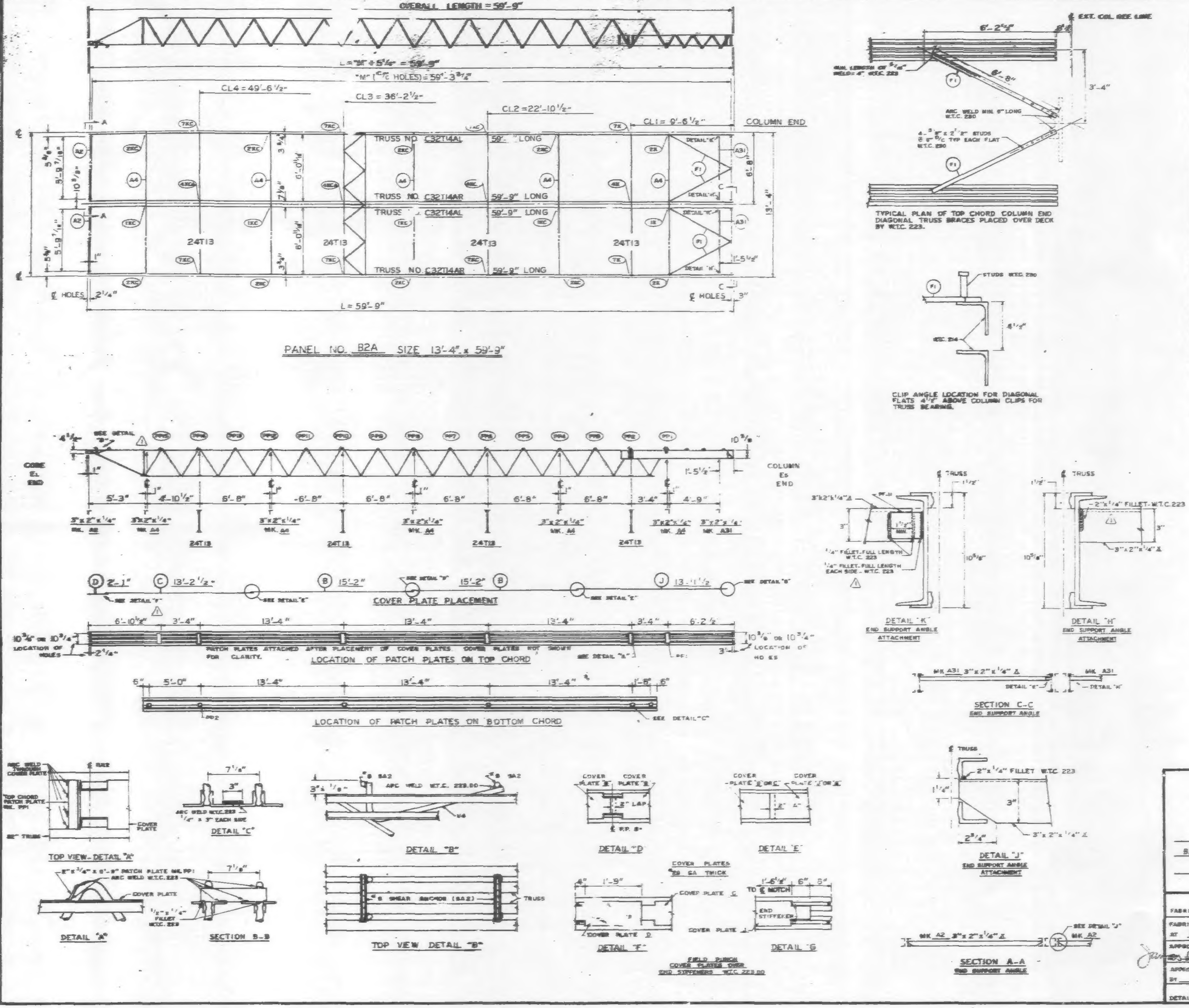
CHECKED BY J.R. PAUL DATE FEB 24, 19[illegible]

IN CHARGE OF PROD. DEV.

LACLEDE STEEL CO. DETAILED BY A.C. [illegible]

FABRICATION CONT. NO W.T.C. 221

SHEET NO FP-BRIE



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DWG.
FLOOR TRUSSES	[illegible]	2	C32T14AL x 59'-9"	ST 214AL
	[illegible]	2	C32T14AR x 59'-9"	ST 214AR
BRIDGING TRUSSES	T13	4	24T13 x -3"	ST 213
3" x 2" x 1/4" ANGLE	A2	2	3"x2"x1/4"x5'-11 9/16"	ST 403
	A4	5	3"x2"x1/4" -3"	ST 403
	A31	2	3"x2"x1/4 -8 1/8"	ST 410
CLOSURE PLATES	PF-11	2	3" x 1/4" x 0'-2 9/16"	ST 412
DIAGONAL FLATS	F1	4	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	12	2" x 1/4" x 0'-2"	ST 400
	PP2	12	3" x 3/8" x 0'-8"	ST 400
COVER PLATES	B	4	9" x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9" x .0135" x 2'-1"	ST 303
	J	2	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	16	2" x 1 1/2" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2"x3/8"x0'-6 1/2"	ST 400
	P2	4	4 1/2"x.38"x0'-9"	ST 400
	P3	4	4 1/2"x.38"x1'-9"	ST 400
	P8	4	3"x1/2"x1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

NO.	DATE	REVISION	BY
1	2-4-69	AS NOTED	G.D.C.

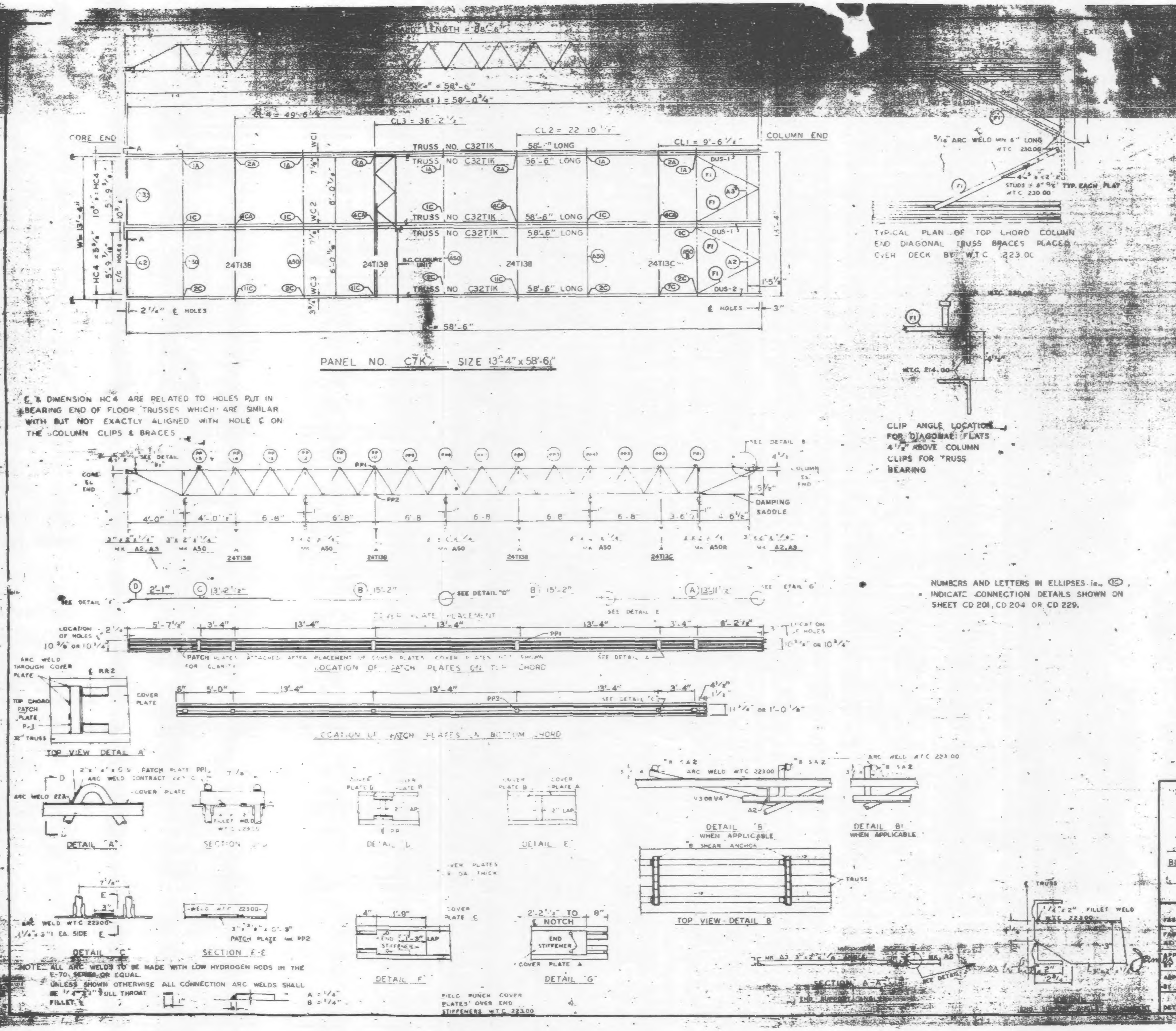
REF. DRWG.	
7-AB3-28	10-4-68
7-AB1-13	10-4-68
7-AB2-8	7-22-68
7-AB4-28	7-22-68
SA-124	10-11-68
7-AB3-24	8-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)

PANEL B2A-13'-4" x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-28 PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 2/[illegible]/69
DRAWN BY L.S. DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHUBA DATE DEC. 5, 1968
IN CHARGE OF [illegible]
DETAILED BY A.C. [illegible]
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP B2A



	TIK	5	[illegible] 58'-6"	01K
	[illegible]	3	14'-1 1/2"	
	T13C	1	[illegible] 14'-1 1/2"	[illegible]
3"x2"x1/4" ANGLE	A2	2	3"x2"x1/4"x5'-11 [illegible]	ST 403
	A3	2	3"x2"x1/4x5'-11 [illegible]	ST 403
	A50 / A50R	[illegible]	3"x2"x1/4"x14'-1 [illegible]	ST 413
DIAGONAL FLATS	F1	4	[illegible]	ST 402
PATCH PLATES	PP1	18	2"x [illegible] x 0'-9"	ST 400
	PP2	18	[illegible] x 0'-3"	ST 400
COVER PLATES	A	3	[illegible] x 13'-11 1/2"	ST 303
	B	6	[illegible] x 13'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
ANGLE CLIPS	[illegible]	13	2" x 1 1/2" x 1/4" x 0'-[illegible]	ST 400
[illegible] SHEAR ANCHOR	SA2	9	[illegible] BAR x [illegible]	ST 400
DAMPING SADDLE	DUS1	[illegible]	[illegible]	ST[illegible]
	DUS2	1	[illegible] 6 7/8"	ST[illegible]
CONNECTION BAR	CB1	[illegible]	[illegible]	ST 400
CONNECTION PLATES	P1	5	[illegible]	ST 400
	P2	4	[illegible] .30" x 0'-[illegible]	ST 400
	P3	[illegible]	[illegible] .30" x 1'-[illegible]	ST 400
	P14	4	3" x [illegible] x 0'-11"	ST 416
CLOSURE UNIT	BC	3	1 1/4" Ø 8'-8 1/2" TUBE	ST 2138

NO.	DATE	REVISION	BY

REF. DRWG.

7-AB4-15,1	10-4-68
7-AB4-15 & 15	7-22-68
7-AB4-42	10-15-68
SA-124	1-8-69
7-AB3-79	10-15-68
7-AB1-24	1-8-69
7-AB2-8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. 6 FLOORS 45 (WEST)

PANEL C7K - 13'-4" x 58'-6"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. [illegible]3-79

APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A. DATE 7/8/69

DRAWN BY [illegible] DATE JULY 1, 1969

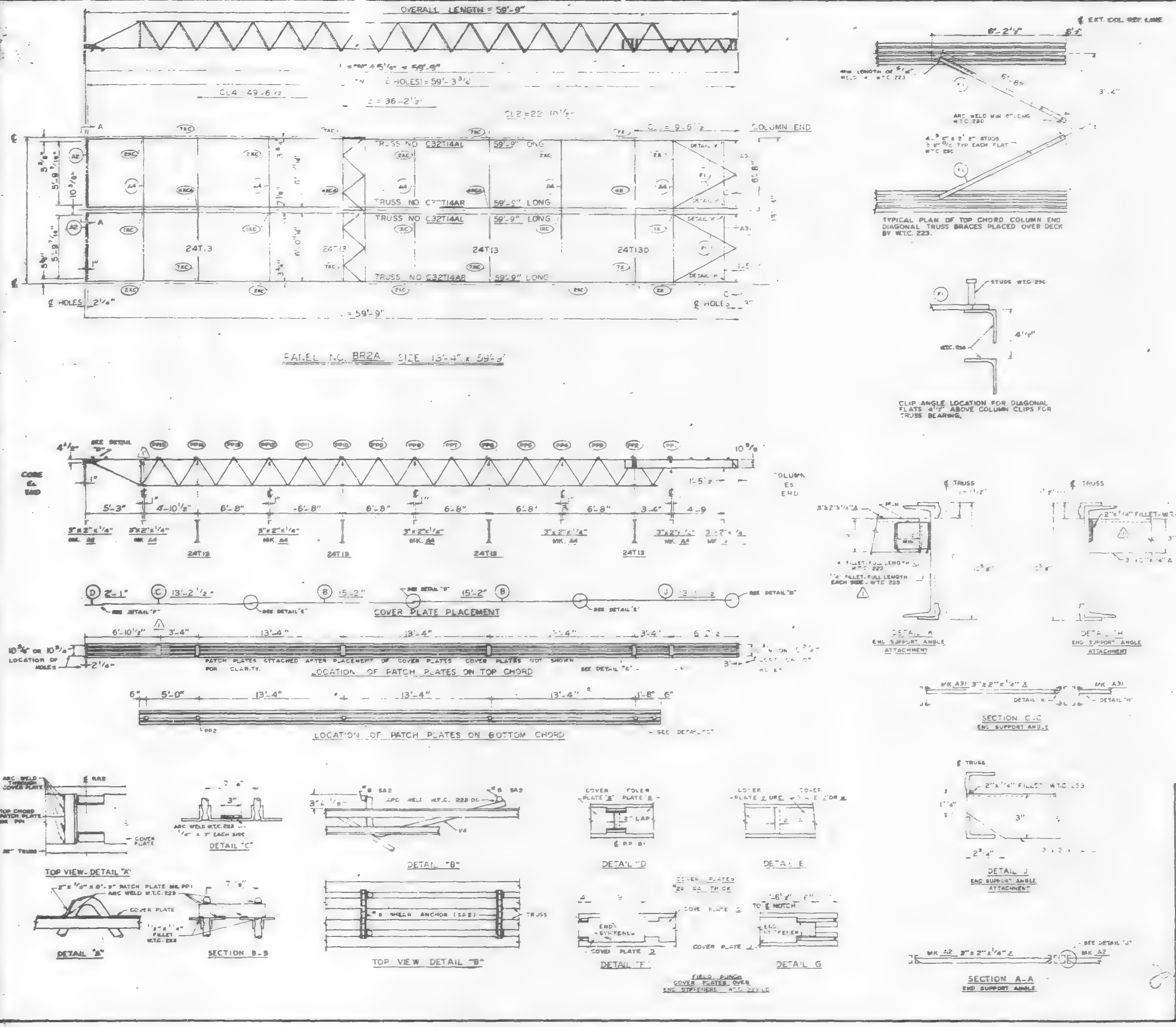
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

CHECKED BY T.M.CHJRA DATE JULY 1, 1969

LACLEDE STEEL CO.

DETAILED BY [illegible]

FP-C7K



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	[illegible]	2	C32T14AL x 59'-9"	ST 214AL
	[illegible]	2	C32T14AR x 59'-9"	ST 214
BRIDGING TRUSSES	T13	[illegible]	24T13 x 13'-[illegible]	ST 213
	T13D	1	24T13D 13'-3"	ST 213D
3"x 2"x 1/4" ANGLE	A2	2	3"x2"x1/4"x 5'-11 9/16"	ST 403
		5	3"x2"x1/4" [illegible]	ST 403
	A3	2	3"x2"x [illegible]	ST 410
CLOSURE PLATES	PF-1	[illegible]	3"x [illegible]" x 0'-2 3/8"	ST 4[illegible]2
DIAGONAL FLATS	F1	4	[illegible]" x 5/8" x 6'-8"	ST 402
PATCH PLATES	[illegible]	2	2" x [illegible]/4" x 0'-9"	ST 400
	PP2	2	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	4	9"x .0135" x 15'-2"	ST 303
	C	2	9" x .0135" x 13'-2 1/2"	ST 303
	D	2	9"x .0135" x 2'-1"	ST 303
	J	2	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	15	2"x 1 1/2"x .25"x 6"	ST 400
#8 SHEAR ANCHOR	SA2	4	#8 REBAR x 0'-8"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2"x 3/8"x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	4	4 1/2" x .30" x 1'-0"	ST 400
	P8	4	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie. (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

NO	DATE	REVISION	BY
1	2-4-69	AS NOTED	S.D.C.

REF. DRWG.

7-AB3-27	10-4-68
7-AB1-3	10-4-68
7-AB2-8	7-22-68
7-AB4-28	7-22-68
SA-124	10-11-68
7-AB3-24	8-15-68

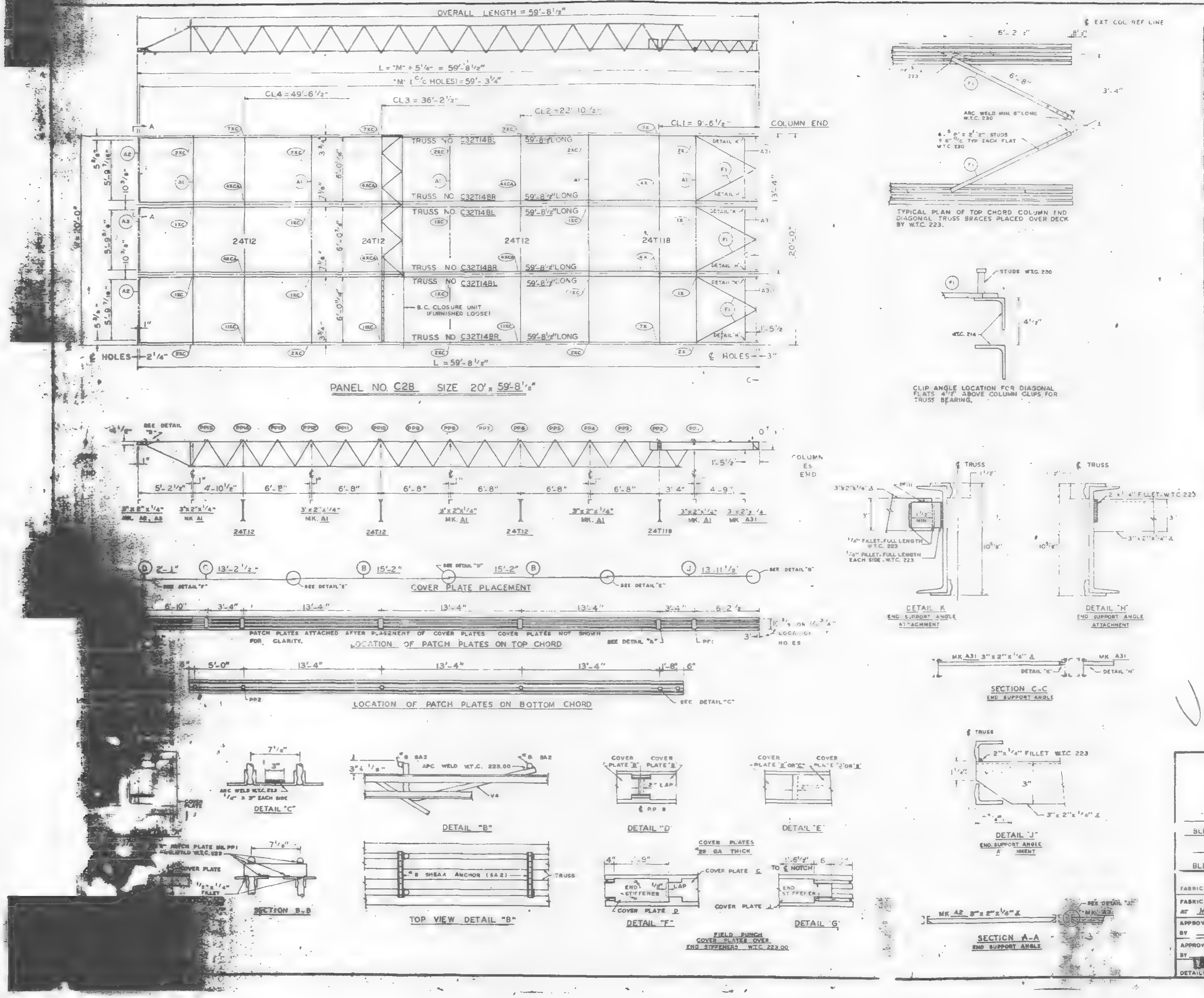
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)

PANEL BR2A-13'-4" x 59'-9" (1)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-27	PLATE
APPROVED FOR FABRICATION BY [signature] FOR P.O.N.Y.A.	DATE [illegible]	DRAWN BY [signature] DATE DEC. 5, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.N. CHUBA DATE DEC. 5, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A.G. [illegible]		FABRICATION CONT NO W.T.C. 221	SHEET NO FP BR2A



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14BL	3	C32T14BL x 59'-8 1/2"	ST 214BL
	T14BR	3	C32T14BR x 59'-8 1/2"	ST 214BL
BRIDGING TRUSSES	T11B	1	24T11B x 19'-11"	BT 211B
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" □ 6'-6 1/2" TUBE	BT 212
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	1	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
	A31	3	3" x 2" x 1/4" x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-1	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2" x 1 1/2" x .25" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, i.e. (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

REF. DRWG.

7-AB3-28	10-4-68
7-AB4-28	7-22-68
7-AB1-13	10-4-68
7-AB2-7	7-22-68
7-AB2-15	10-4-68

VOID

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 92 (NORTH)

PANEL C2B - 20' x 59'-8 1/2"

BLDG. B FLOORS 92 (WEST)

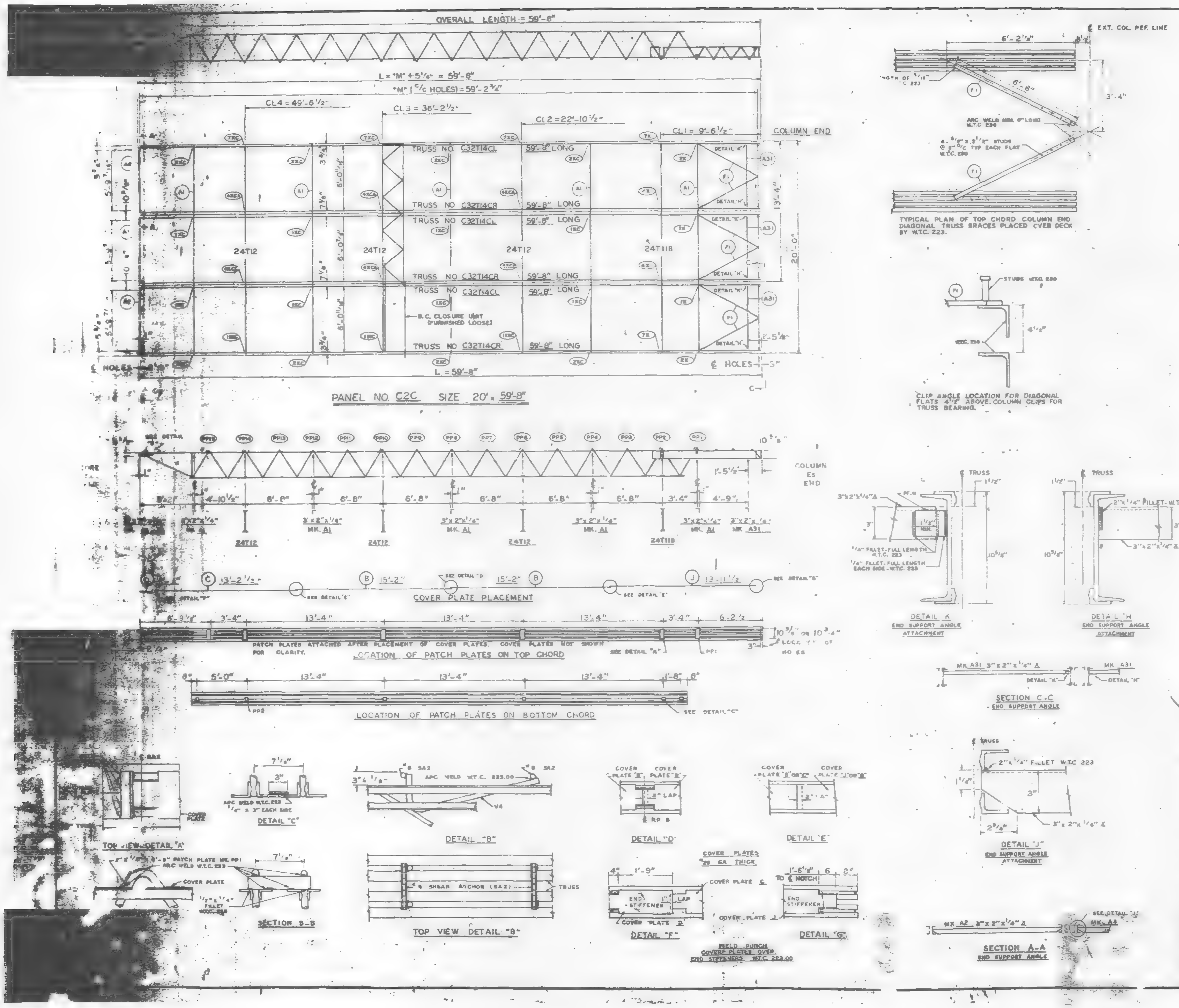
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-28 PLATE

APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE
DRAWN BY [illegible] DATE APRIL 28, 1969

APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE
CHECKED BY T.H. CHUNG DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.

DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO [illegible]



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PLS	SIZE	
FLOOR TRUSSES	T14CL	3	C32T14CL x 59'-8"	ST 214CL
	T14CR	3	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T11B	1	24T118 x 19'-11"	BT 2118
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" Ø 6'-6 1/2" TUBE	BT 212
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	1	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
	A31	3	3" x 2" x 1/4" x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	5" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2" x 1 1/2" x .25" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#6 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

NO.	DATE	REVISION	BY

VOID

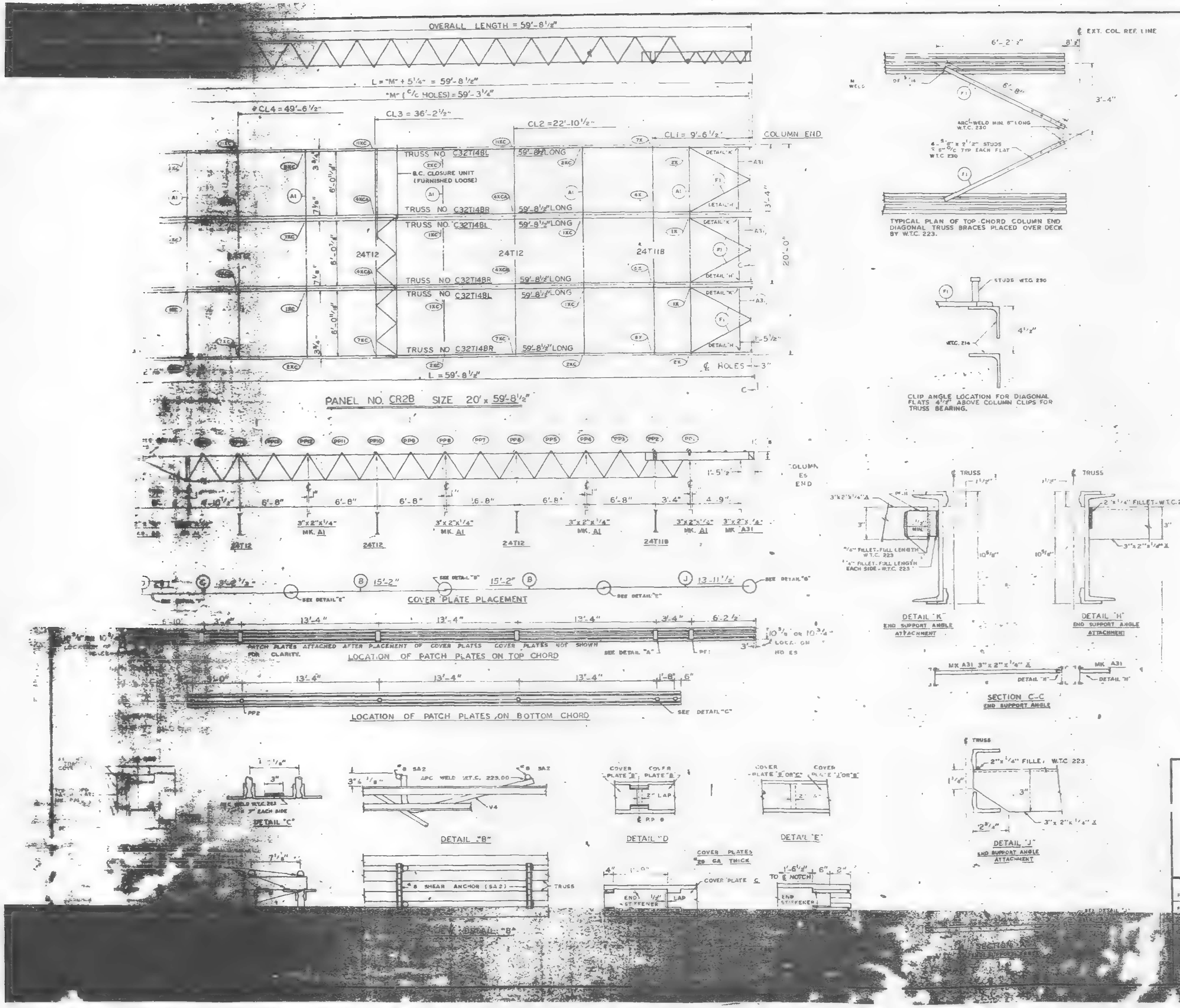
REF DRWG.

7-AB3-28	10-4-68
7-AB4-28	7-22-68
7-AB1-13	10-4-68
7-AB2-7	7-22-68
7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 59 & 92 (SOUTH)
PANEL C2C - 20' x 59'-8"
BLDG. B FLOORS 59 & 92 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-28 PLATE
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE
DRAWN BY [illegible] DATE APRIL 28, 1969
APPROVED FOR FABRICATION BY [illegible] DATE
CHECKED BY T.M. CHUBB DATE APRIL 28, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. [illegible]
FABRICATION CONT NO W.T.C. 221
SHEET FP C2C



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T148L	3	C32T148L x 59'-8 1/2"	ST 2148L
	T148R	3	C32T148R x 59'-8 1/2"	ST 2148L
BRIDGING TRUSSES	T118	1	24T118 x 19'-11"	BT 2118
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1 1/4" ⌀ 6'-6 1/2" TUBE	BT 212
3"x 2"x 1/4" ANGLE	A1	5	3"x 2"x 1/4"x 19'-11"	ST 403
	A2	2	3"x 2"x 1/4"x 5'-11 3/4"	ST 403
	A3	1	3"x 2"x 1/4"x 5'-11 3/4"	ST 403
	A31	3	3"x 2"x 1/4"x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3"x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	8	2"x 1/4" x 0'-9"	ST 400
	PP2	18	3"x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9"x .0135" x 15'-2"	ST 303
	C	3	9"x .0135" x 13'-2 1/2"	ST 303
	D	3	9"x .0135" x 2'-1"	ST 303
	J	3	9"x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2"x 1 1/2"x .25" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie.. (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

REF DRWG.

7-AB3-29	10-4-68
7-A94-28	7-22-68
7-AB1-13	10-4-68
7-AB2-7	7-22-68
7-AB2-15	10-4-68

VOID

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 92 (NORTH)

PANEL CR2B - 20' x 59'-8 1/2"

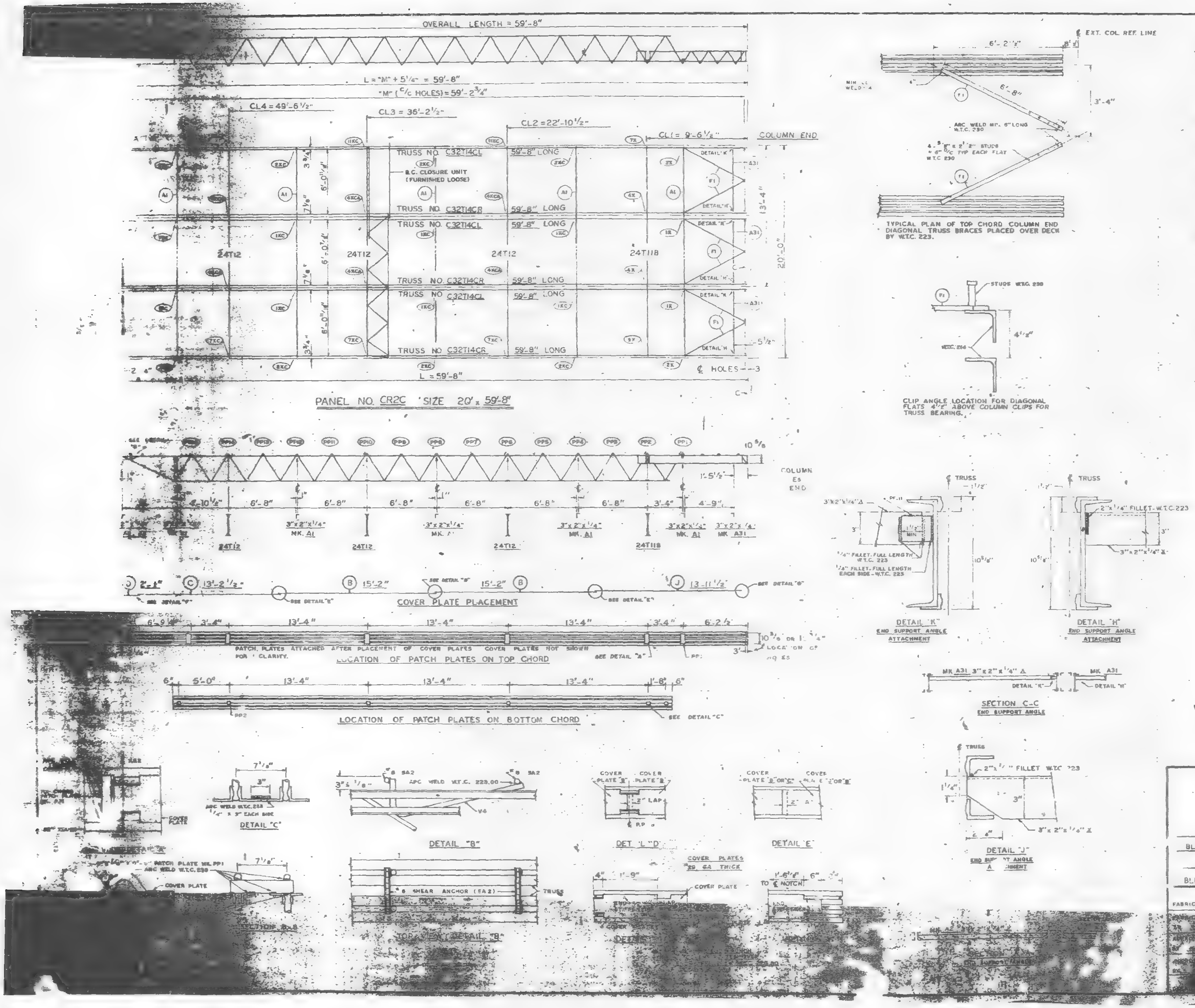
BLDG. B FLOORS 92 (WEST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED

DESIGN DRAWING NO

APRIL 28 1969



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14CL	3	C32T14CL x 59'-8"	ST 214CL
	T14CR	3	C32T14CR x 59'-8"	ST 214CL
BRIDGING TRUSSES	T11B	1	24T11B x 19'-11"	BT 211B
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1/4" □ 6'-6 1/2" TUBE	BT 212
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	2	3" x 2" x 1/4" x 5'-11 9/16"	ST 403
	A3	1	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
	A31	3	3" x 2" x 1/4" x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PPL	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2" x 1 1/2" x .25" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie., (1X).
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

REF DRWG.

7-AB3-29	10-4-68
7-AB4-28	7-22-68
7-AB1-13	10-4-68
7-AB2-7	7-22-68
7-AB2-15	10-4-68

VOID

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 59 & 92 (SOUTH)

PANEL CR2C - 20' x 59'-8"

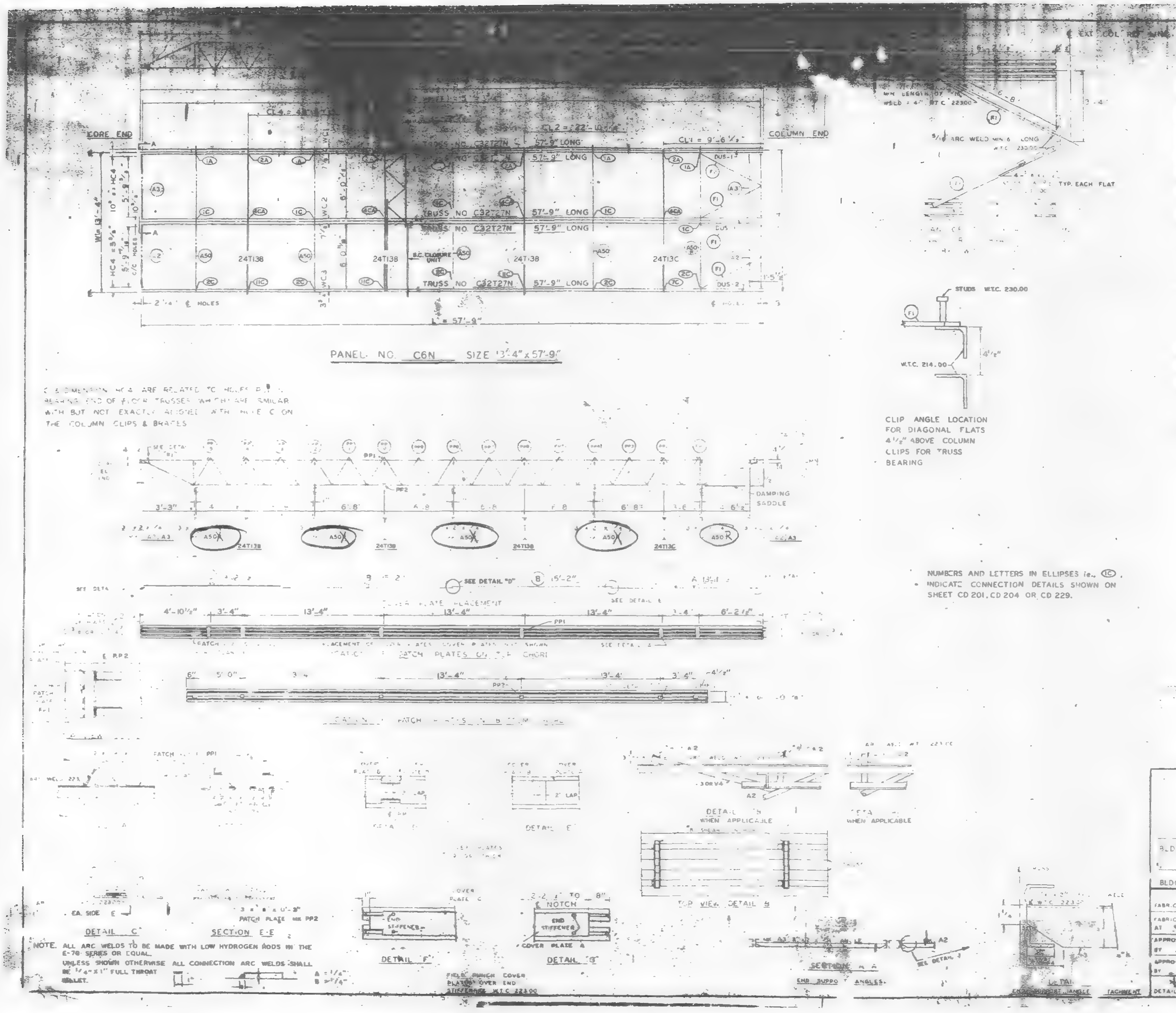
BLDG. B FLOORS 59 & 92 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY

DESIGN DRAWING NO 7-AB3-29

DRAWN BY [illegible] DATE APRIL 28 196[illegible]

CHECKED BY [illegible] DATE APRIL 28 196[illegible]



FLOOR TRUSSES	[illegible]	[illegible]	[illegible]	[illegible]
BRIDGING TRUSSES	T13B	3	24T13B - 14'-1 1/2"	BT 213B
	T13C	1	24T13C - 14'-1 1/2"	BT 213C
[illegible] ANGLE	A2	2	3 x 2 x 1/4 x 5-11 9/16	ST 403
	A3	2	3" x 2" x 1/4 x 5'-11 9/16"	ST 403
	A50	4	3" x 2" x 1/4" x 14'-1 1/4"	ST 413
	A50R	1		
[illegible] PLATES	F	4	2 x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2 x 4" x 0'-9"	ST 400
	PP2	18	3 x 3/8 x 0'-3"	ST 400
[illegible] PLATES	A	3	[illegible]	[illegible]
	B	6	9 x 0.35 x 5'-2	[illegible]
	C	3	9 x 0.35 x 3'-2	[illegible]
[illegible]	[illegible]	13	2" x 1/2" x 1/4" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-[illegible]	ST 400
DAMPING SADDLE	DUS-1	2	3 x 3 x 3/8 x 3 7/8	[illegible]298
	DUS-2	[illegible]	3 x 3 x 3/8 x 3 6 7/8	[illegible]298
CONNECTION BAR	CB1	[illegible]	1 5/8 x 1'-3"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3		4 1/2" x .39" x 1'-0"	ST 400
	P14	4	3" x 1/2" x 0'-11"	ST 416
CLOSURE UNIT	BC	3	1 1/4" □ 6'-6 1/2" TUBE	BT 2138

NO.	DATE	REVISION	BY

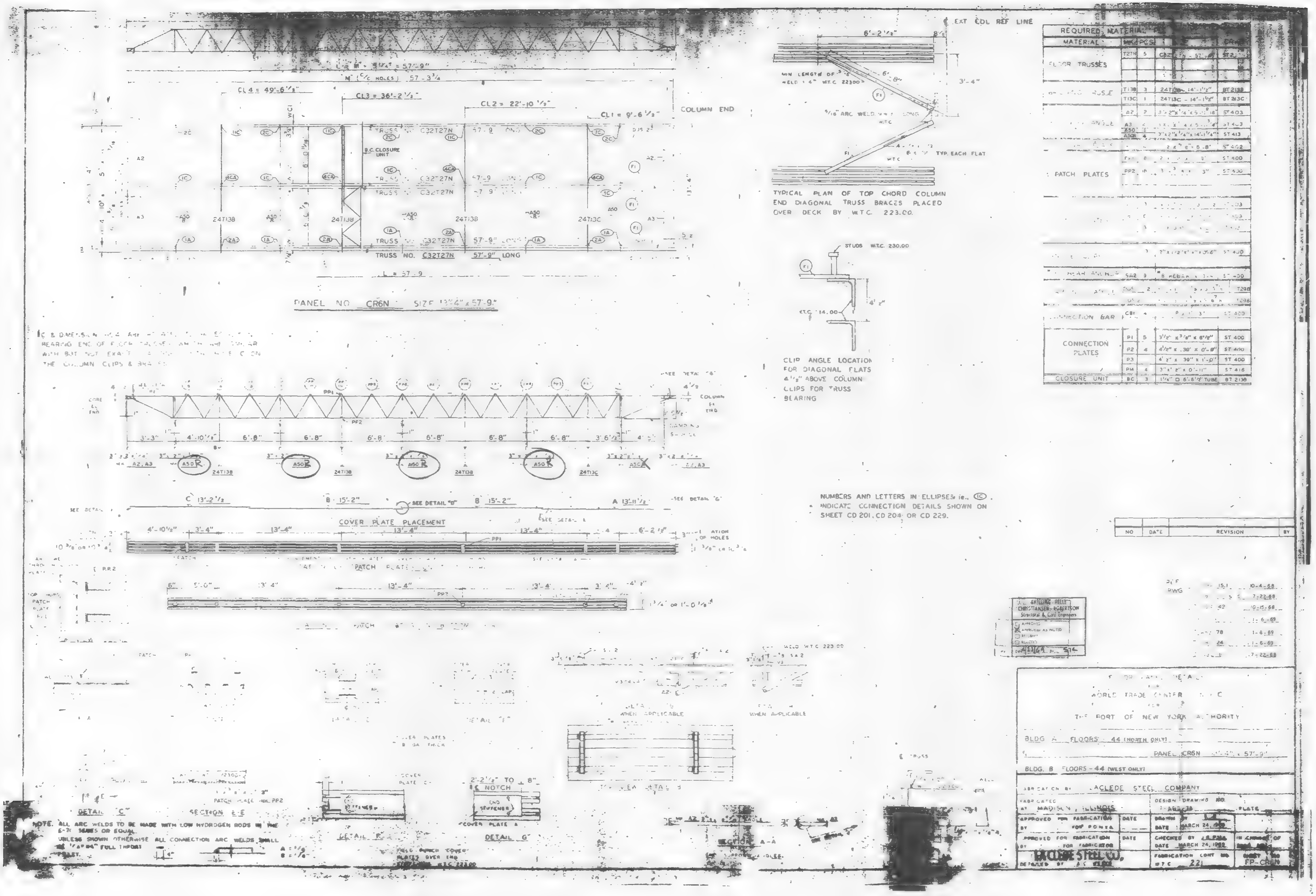
CHRISTIANSEN-ROBERTSON Structural & Civil Engineers
APPROVED AS NOTED
Date 4/23/69 By SK

REF. DRWG.	
7-AB4 15.1	10-4-68
7-AB4 1 & 6	7-22-68
7-AB4 42	10-15-68
SK [illegible]	1-6-69
7-AB3-77	1-6-69
7-A6 24	1-6-69
7-AB2 [illegible]	7-22-68

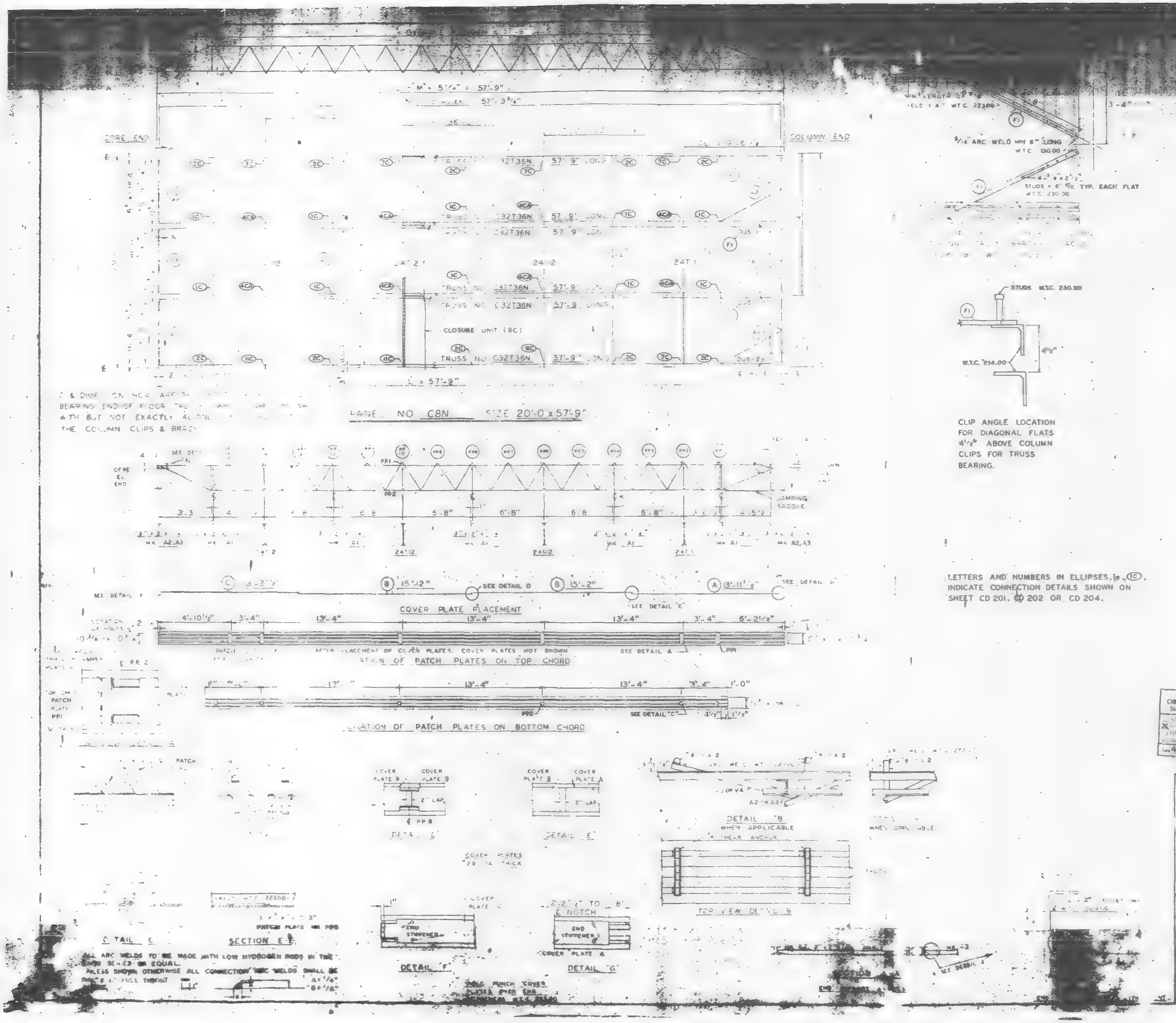
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 44 (NORTH ONLY)
PANEL C6N - 13'-4" x 57'-9"
BLDG. B FLOORS 44 (WEST ONLY)

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-77 PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE
DRAWN BY DATE MARCH 24, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY A.J.P. DATE MARCH 24, 1969
IN CHARGE OF [illegible]
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. WTC 221
SHEET NO. FP-C6N



EXT COL REF LINE
COLUMN END
PANEL NO. CR6N SIZE 13'-4" x 57'-9"
TRUSS NO. C32T27N 57'-9" LONG
B.C. CLOSURE UNIT
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
L = 57'-9"
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
STUDS W.T.C. 230.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
REQUIRED MATERIAL
MATERIAL
MK
PCS
FLOOR TRUSSES
T27N 5
T13B 3 24T13B - 14'-1 1/2" BT 213B
T13C 1 24T13C - 14'-1 1/2" BT 213C
A2 2 ST 403
A3 2 ST 403
A50 A50R 4 3"x2"x1/4"x14'-1 1/4" ST 413
PATCH PLATES
PP1 8 ST 400
PP2 18 ST 400
SA2 9 ST 400
CONNECTION BAR
CB1 4 ST 400
CONNECTION PLATES
P1 5 3 1/2" x 3/8" x 8 1/2" ST 400
P2 4 4 1/2" x .30" x 0'-8" ST 400
P3 4 1/2" x .39" x 1'-0" ST 400
P14 4 3" x 1/2" x 0'-11" ST 416
CLOSURE UNIT BC 3 1 1/4" ☐ 6'-6 1/2" TUBE BT 2138
COVER PLATE PLACEMENT
NUMBERS AND LETTERS IN ELLIPSES ie. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 204 OR CD 229.
NO DATE REVISION BY
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON Structural & Civil Engineers
APPROVED AS NOTED
WORLD TRADE CENTER
THE PORT OF NEW YORK AUTHORITY
BLDG A FLOORS 44 (NORTH ONLY)
PANEL CR6N 13'-4" x 57'-9"
BLDG. B FLOORS - 44 (WEST ONLY)
LACLEDE STEEL COMPANY
MADISON, ILLINOIS
DESIGN DRAWING NO.
APPROVED FOR FABRICATION FOR P.O.N.Y.A.
DATE MARCH 24, 1969
CHECKED BY
DATE MARCH 24, 1969
LACLEDE STEEL CO.
FABRICATION CONT NO. WTC 221
FP-CR6N
DETAIL "C"
SECTION E-E
DETAIL "G"
SECTION A-A
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" FULL THROAT FILLET.



ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

	T36	6	C32T36N - 57'-9"	ST 236N
BRIDGING TRUSSES	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	3	[illegible]	[illegible]
3"x2"x1/4" ANGLE	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	ST 403
	A3	2	3"x2"x1/4 x 5-[illegible]	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-8"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	3	9" x .0135" x 13'-11 1/2"	ST303
	B	6	9" x .0135" x 15'-2"	ST303
	C	3	9" x .0135" x 13'-2 1/2"	ST303
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-0"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3-8 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8 x 3 8 7/8	ST 298
CONNECTION BAR	CB1	4	1 # x 1'-3" (1 1/4 D tube)	ST 400
CLOSURE UNIT	8C	3	2 x 1 1/2" x 1 1/4 x 230 x 6'-6 1/2"	BT 212
				CD 204
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 0'-8 1/2"	ST 400
	P2	4	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

REF. DRWG.

7-AB4-18	12-20-68
7-AB4-[illegible]	10-15-68
[illegible]	7-22-68
7-AB4-41	7-22-68
SA-[illegible]4	1-6-69
AB3 56	1-6-69
7-AB 32	1-6-69
7-AB4-[illegible] & 7	7-22-68
7-AB4-42	10-15-68

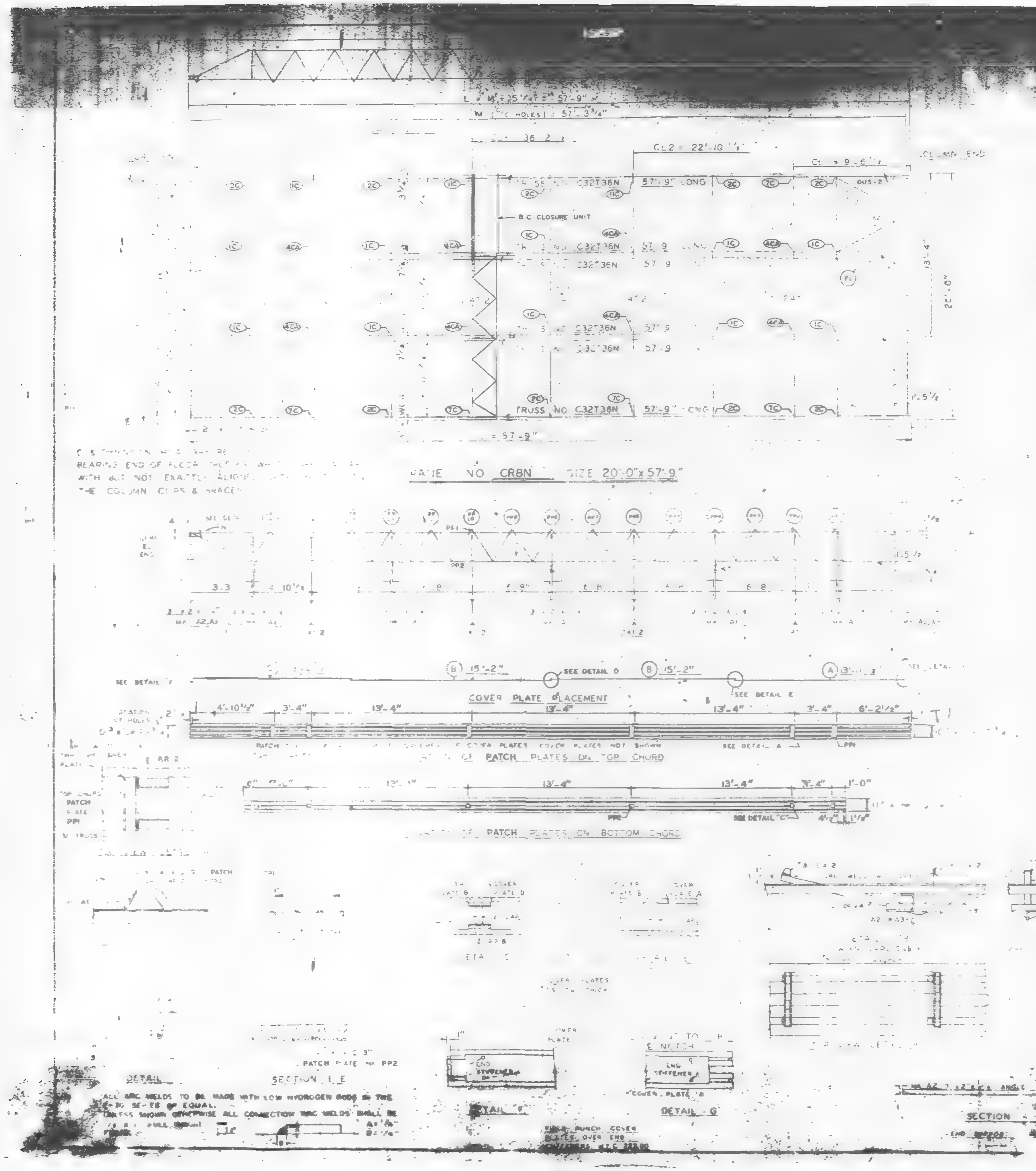
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON
Structural & Civil Engineers
4/23/69 SK

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

44 (SOUTH ONLY)

PANEL C8N 20'-0" x 57'-9

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-56
APPROVED FOR FABRICATION BY ... FOR P.O.N.Y.A. DATE
DRAWN BY ... DATE MARCH 31, 1969
CHECKED BY T.M. CHURA DATE MARCH 31, 1969
IN CHARGE OF PROD. DEK
LACLEDE STEEL CO.
DETAILED BY A.G. [illegible]
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP C8N



TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00

CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEET CD 201, CD 202 OR CD 204.

				REF. DRWG.
FLOOR TRUSSES			C32T36N 57'-9	[illegible]
BRIDGING TRUSSES	T1	[illegible]	24T12 9'-11"	ST212
	T2	[illegible]	24T12 9'-11"	ST212
3"x2"x¼" ANGLE	A1	[illegible]	3"x2"x¼"x [illegible]	ST 403
	A2	4	3"x2"x¼"x [illegible]	ST 403
	A3	[illegible]	3"x2"x¼"x [illegible]	ST 403
DIAGONAL FLATS	F1	6	1½"x⅜"x [illegible]	ST 402
PATCH PLATES	PP1	10	2"x¼"x 0'-9	ST 400
	PP2	[illegible]	3"x⅜"x 0'-3"	ST 400
COVER PLATES	A	3	9"x.0135"x 13'-[illegible]	ST303
	B	6	9"x.0135"x 15'-2	ST303
	C	3	9"x.0135"x 3'-2	ST303
ANGLE CLIPS	C	21	2"x 2"x ¼"x 0'-6	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3-[illegible]	ST 298
	DUS-2	1	3½"x3½"x⅜"x3 [illegible]	ST 298
CONNECTION BAR	CBL	4	1" x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2 4x1½x1¼" x .230 x 6'-6½"	BT 212 / CD 204
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .30" x 0'-9"	ST 400
	P3	1	4½" x .30" x 1'-0"	ST 400

NO.	DATE	REVISION	BY

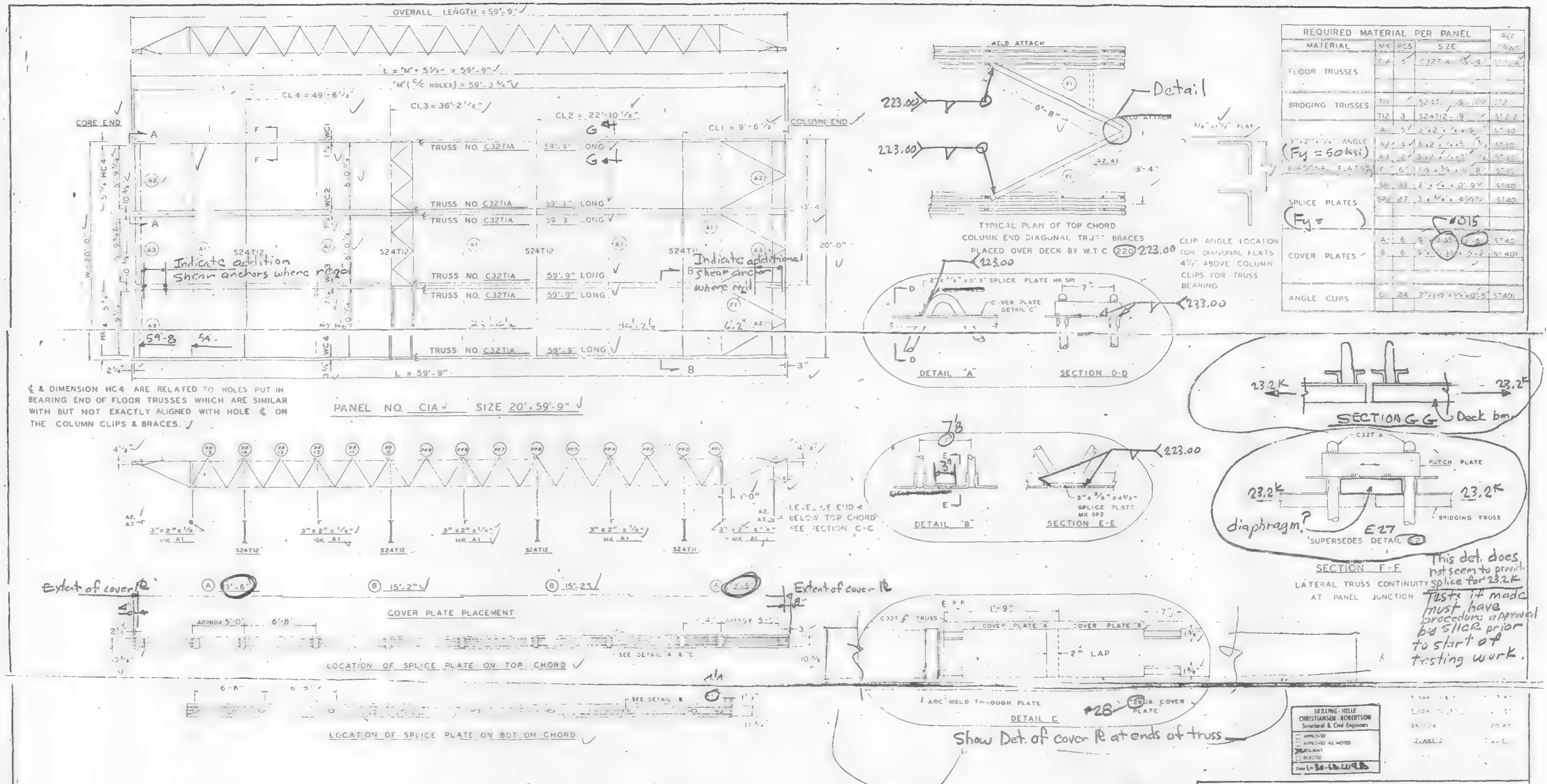
REF. DRWG.: 7-AB4-[illegible] 12-20-68; 10-15-68; 7-22-68; 7-22-68; 1-6-69; 57 1-6-69; 32 [illegible]-5-69; 7-22-68; 84 42 10-15-66

SKILLING HELLE CHRISTIANSEN ROBERTSON Structural & Civil Engineers — 4/23/69. SK

[illegible] 44 (SOUTH ONLY)

PANEL CR8N [illegible] x 57'9

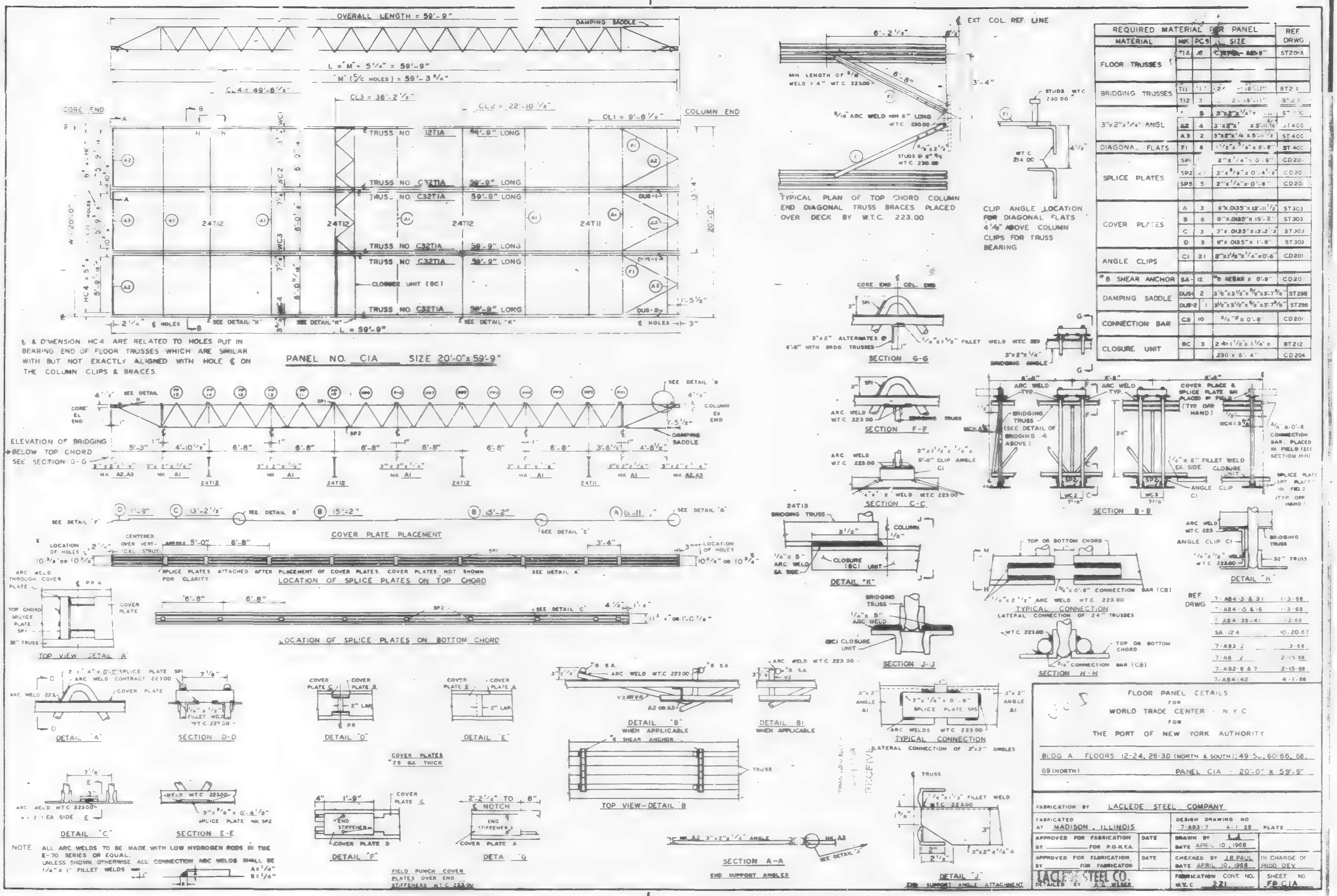
LACLEDE STEEL COMPANY
AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3 57
DRAWN BY — DATE MARCH 31, 1969
CHECKED BY T.W. CHURA — DATE MARCH 31, 1969
APPROVED FOR FABRICATION BY FOR [illegible]
APPROVED FOR FABRICATION BY FOR FABRICATOR
IN CHARGE OF [illegible]
FABRICATION CODE NO.
SHEET NO. CR8N
LACLEDE STEEL CO.



FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A - FLOORS 12-24, 26-38 (NORTH & SOUTH), 49-58, 60-66, 68-69 (NORTH)
PANEL C1A - 20'-0" x 59'-9" LONG (No Req'd)

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
DESIGN DRAWING NO 7-A83-7 10-20-67 PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A. DATE
DRAWN BY: DATE: JAN 1, 1968
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE
CHECKED BY: J.R. PAUL DATE: JAN 1, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY: A. C. WEBER
FABRICATION CONT. NO W.T.C. 221
SHEET NO. FP-C1A



REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T1A	6	C32T1A - 59'-9"	ST201A
BRIDGING TRUSSES	T11	1	24 - 19'-11"	BT211
	T12	3	2 - 19'-11"	BT212
3"x2"x1/4" ANGL	A1	8	3"x2"x1/4"x [illegible]	ST400
	A2	4	3"x2"x [illegible] x 5'-11 5/16	ST400
	A3	2	3"x2"x1/4 x 5'-11 1/2	ST400
DIAGONAL FLATS	F1	6	1 1/2"x 3/8" x 6'-8"	ST400
SPLICE PLATES	SP1	[illegible]	2"x 1/4" x 0'-9"	CD201
	SP2	21	3"x 3/8" x 0'-4 1/2"	CD201
	SP5	5	2"x 1/4" x 0'-6"	CD201
COVER PLATES	A	3	9"x.0135"x 13'-11 1/2"	ST303
	B	6	9"x.0135"x 15'-2"	ST303
	C	3	9"x.0135"x 13'-2 1/2"	ST303
	D	3	9"x.0135"x 1'-9"	ST303
ANGLE CLIPS	C1	21	2"x1 1/2"x 1/4"x 0'-6"	CD201
#8 SHEAR ANCHOR	SA-1	12	#8 REBAR x 0'-9"	CD201
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-7 3/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x 3/8"x3'-7 3/8"	ST298
CONNECTION BAR	CB	10	3/4" Ø x 0'-6"	CD201
CLOSURE UNIT	BC	3	2-4x1 1/2"x 1 1/4" x	BT212
			230 x 6'-4"	CD204

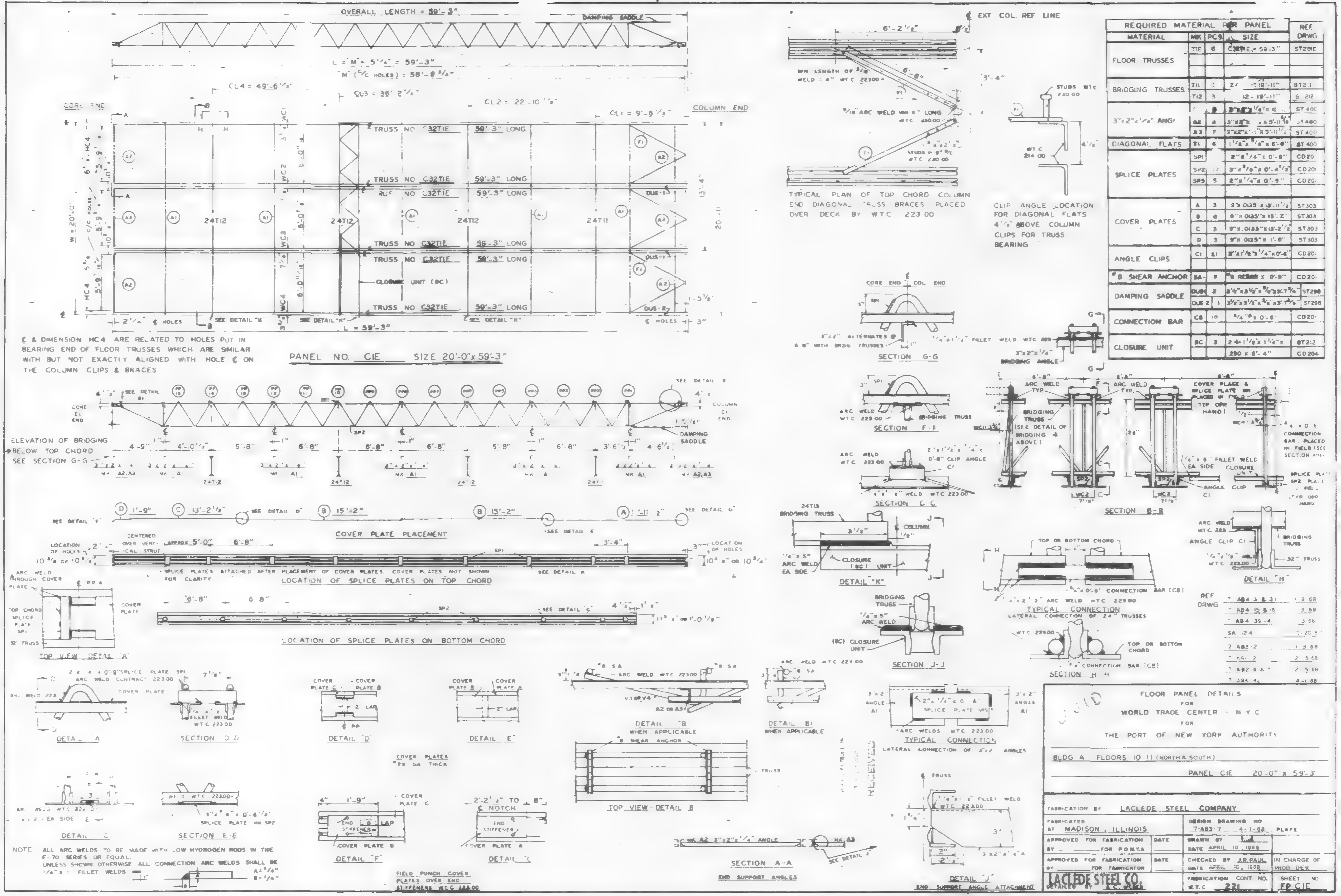
REF DRWG

7-AB4-3 & 31	1-3-68
7-AB4-15 & 16	1-3-68
7-AB4-39-41	1-3-68
SA-124	10-20-67
7-AB3-2	3-68
7-AB-2	2-15-68
7-AB2-6 & 7	2-15-68
7-AB4-42	4-1-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 12-24, 26-30 (NORTH & SOUTH); 49-56, 60-66, 68, 69 (NORTH) PANEL C1A - 20'-0" x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-7 4-1-68 PLATE
APPROVED FOR FABRICATION BY ____ FOR P.O.N.Y.A. DATE
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE
DRAWN BY [illegible] DATE APRIL 10, 1968
CHECKED BY J.R. PAUL DATE APRIL 10, 1968
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO FP C1A



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIE	6	C32TIE - 59'-3"	ST201E
BRIDGING TRUSSES	T11	1	24 ... - 19'-11"	BT2.1
	T12	3	12 - 19'-11"	BT212
3"x2"x1/4" ANGLE	A1	[illegible]	3"x2"x1/4"x 10'-...	ST 400
	A2	4	3"x2"x ... x 5'-11 5/16"	ST400
	A3	2	3"x2"x1/4"x 5'-11 1/2"	ST 400
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 6'-8"	ST 400
SPLICE PLATES	SP1		2"x 1/4"x 0'-8"	CD20
	SP2	27	3"x 3/8"x 0'-4 1/2"	CD201
	SP5	5	2"x 1/4"x 0'-9"	CD201
COVER PLATES	A	3	9"x 0.0135"x 13'-11 1/2"	ST303
	B	6	9"x 0.0135"x 15'-2"	ST303
	C	3	9"x 0.0135"x 13'-2 1/2"	ST303
	D	3	9"x 0.0135"x 1'-9"	ST303
ANGLE CLIPS	C1	21	3"x 1 1/2"x 1/4"x 0'-6"	CD201
#8 SHEAR ANCHOR	SA-	8	#8 REBAR x 0'-9"	CD201
DAMPING SADDLE	DUS-1	2	3 1/2"x 3 1/2"x 3/8"x 3'-7 3/8"	ST298
	DUS-2	1	3 1/2"x 3 1/2"x 3/8"x 3'-7 3/8"	ST298
CONNECTION BAR	CB	10	3/4" ø x 0'-6"	CD201
CLOSURE UNIT	BC	3	2 ∠ 1 1/2"x 1 1/4"x	BT212
			230 x 6'-4"	CD204

REF DRWG

7 AB4 3 & 31	3 68
7 AB4 15 & 6	3 68
7 AB4 35-4	3 68
SA 124	3-20 6
7 AB3-2	1 3 68
7 A51 2	2 5 68
7 AB2 6 & 7	2 5 68
7 AB4 4	4-1 68

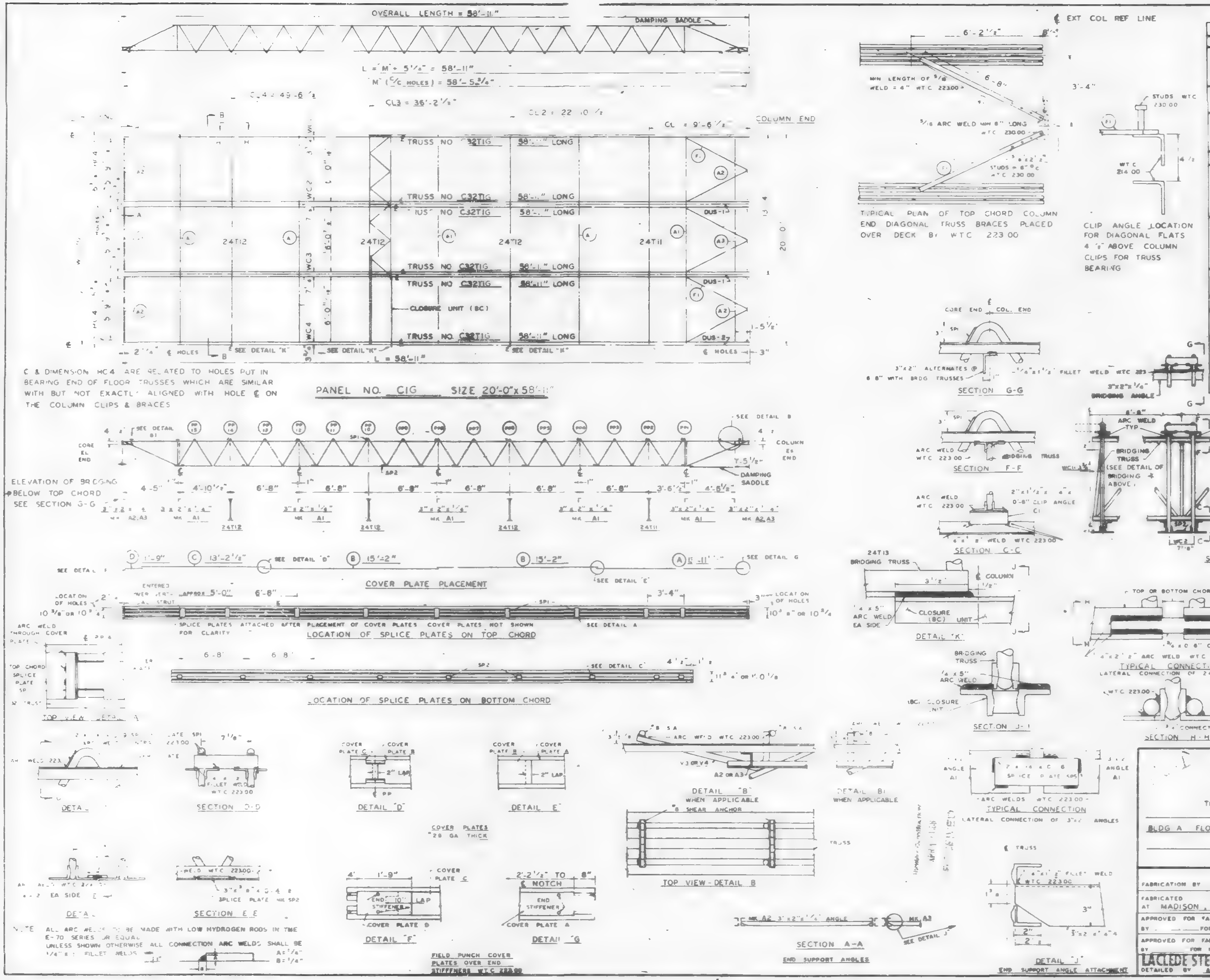
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-11 (NORTH & SOUTH)

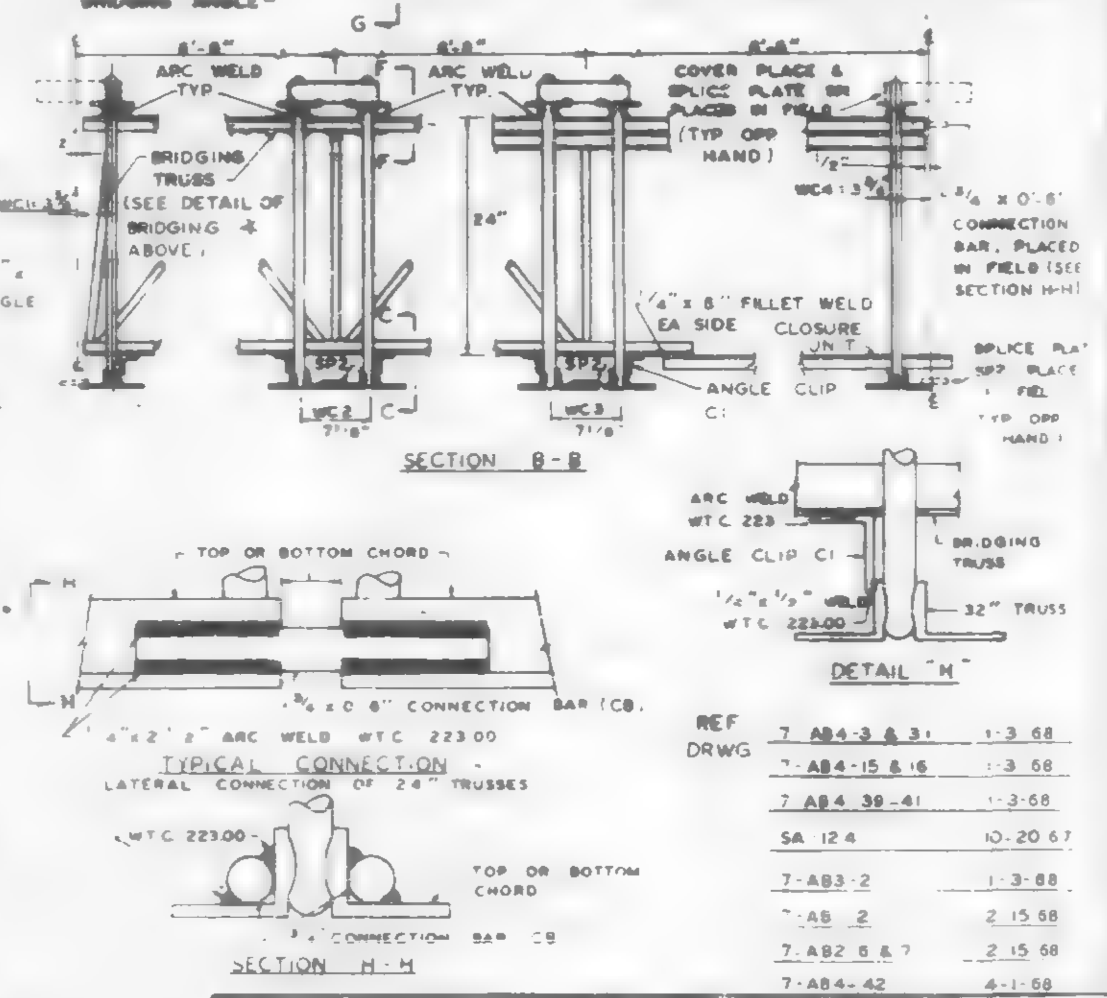
PANEL CIE 20'-0" x 59'-3'

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-7 4-1-68 PLATE	
APPROVED FOR FABRICATION BY ___ FOR P.O.N.Y.A.	DATE	DRAWN BY [illegible] DATE APRIL 10, 1968	
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE APRIL 10, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A.C. WAGER		FABRICATION CONT. NO. W.T.C 221	SHEET NO FP CIE



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1G	6	C32T1G - 58'-11"	ST201G
BRIDGING TRUSSES	T11	1	24 - 19'-11"	BT211
	T12	3	12 - 19'-11"	B 212
3"x2"x1/4" ANGLE	A	3	3"x2"x1/4"x 19'-...	ST 400
	A2	4	3"x2"x1/4" x 5'-11 3/4"	ST 400
	A3	2	3"x2"x1/4" x 5'-11 1/2"	ST 400
DIAGONAL FLATS	E1	6	1 1/2"x 5/8"x 6'-6"	ST 400
SPLICE PLATES	SP1		2"x 1/4"x 0'-9"	CD20
	SP2	27	3"x 5/8"x 0'-4 1/2"	CD201
	SP3	5	2"x 1/4"x 0'-6"	CD201
COVER PLATES	A	3	9"x.0135"x 13'-11 1/2"	ST303
	B	6	9"x.0135"x 15'-2"	ST303
	C	3	9"x.0135"x 13'-2 1/2"	ST303
	D	3	9"x.0135"x 1'-9"	ST303
ANGLE CLIPS	C1	21	2"x1 1/2"x 1/4"x 0'-6"	CD201
#8 SHEAR ANCHOR	SA-	9	#8 REBAR x 0'-9"	CD20
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x3'-7 3/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x 3/8"x3'-7 3/8"	ST298
CONNECTION BAR	CB	10	3/4"φ x 0'-9"	CD201
CLOSURE UNIT	BC	3	2 - 1 1/2"x 1 1/4"x	BT212
			230 x 6'-4"	CD204



REF DRWG	
7-AB4-3 & 31	1-3-68
7-AB4-15 & 16	1-3-68
7-AB4-39-41	1-3-68
SA 124	10-20-67
7-AB3-2	1-3-68
7-AB 2	2-15-68
7-AB2 6 & 7	2-15-68
7-AB4-42	4-1-68

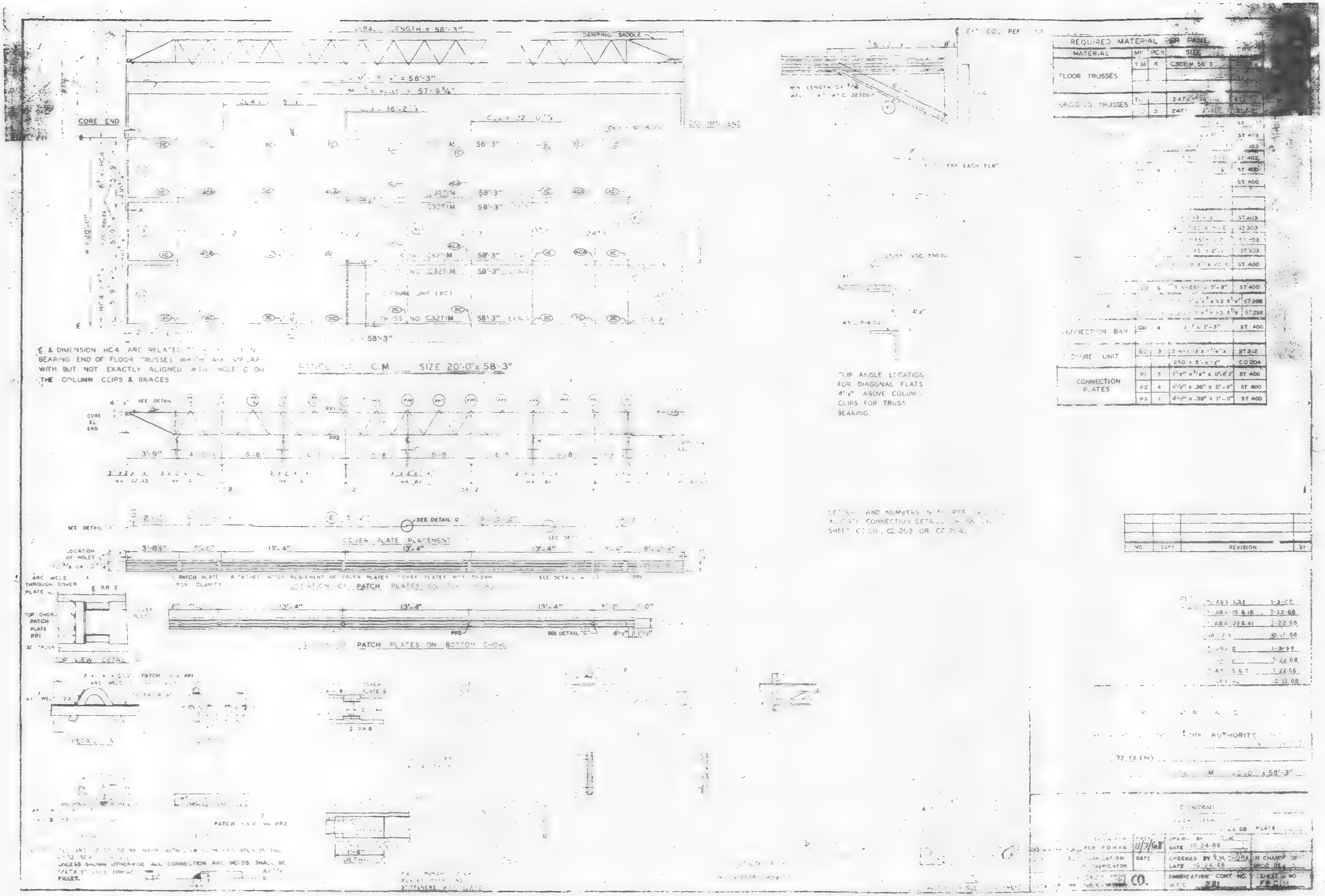
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 39-40 (NORTH & SOUTH)

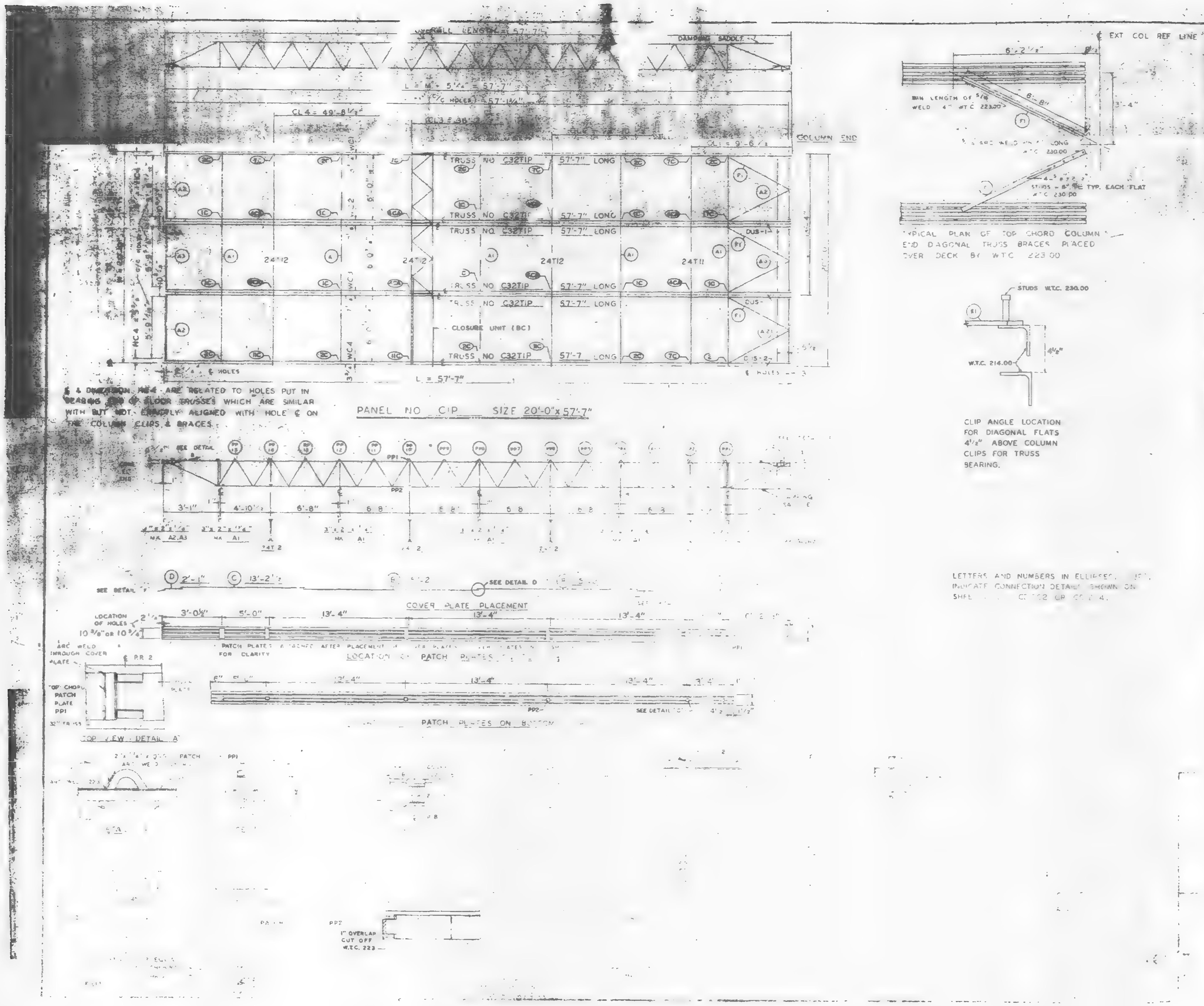
PANEL C1G - 20'-0" x 58'-11"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-7 4-1-68 PLATE	
APPROVED FOR FABRICATION BY ____ FOR P.O.N.Y.A.	DATE	DRAWN BY ___ DATE APRIL 10, 1968	
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE APRIL 10, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A.C. WEBER		FABRICATION CONT NO. WTC 221	SHEET NO FP C1G

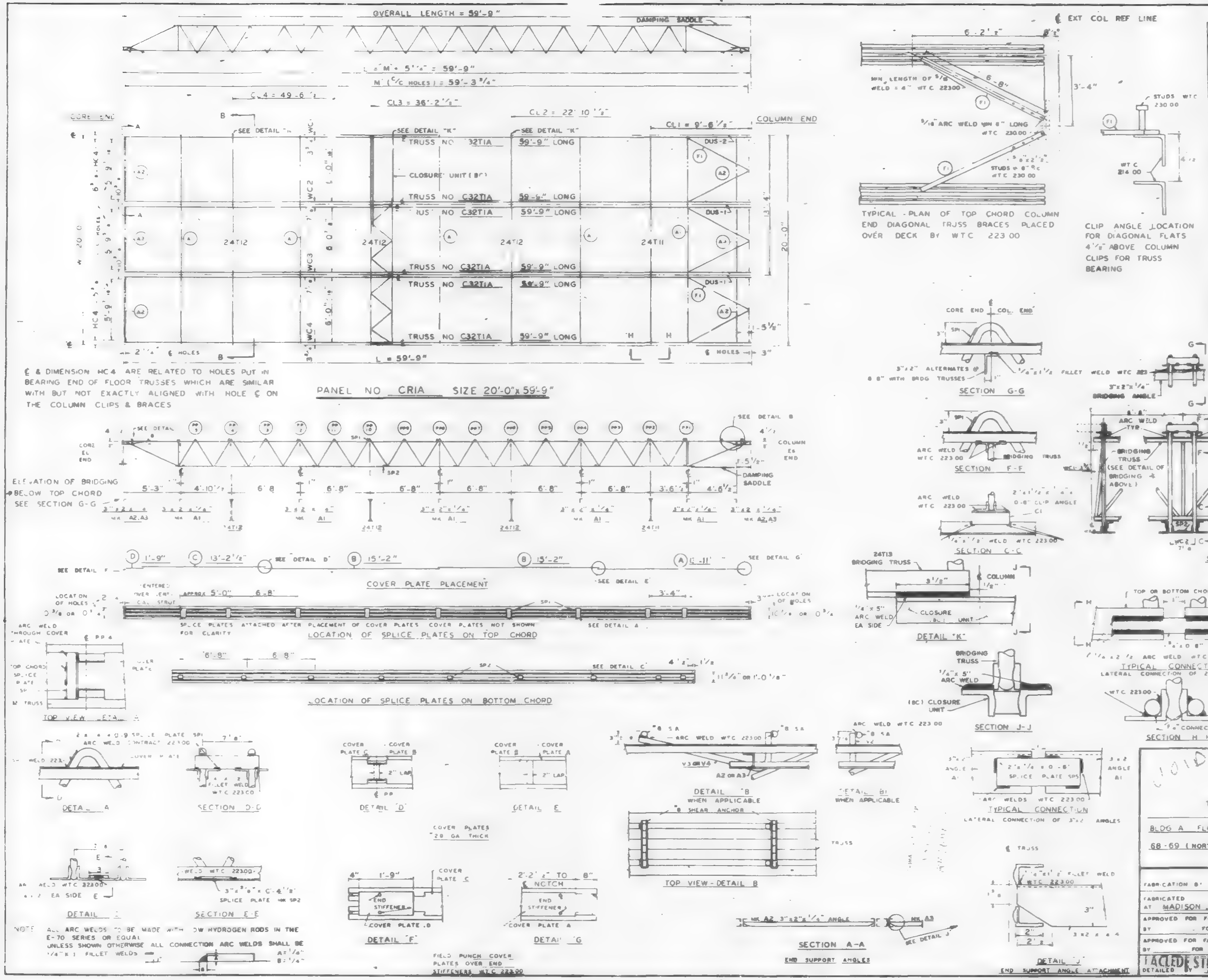


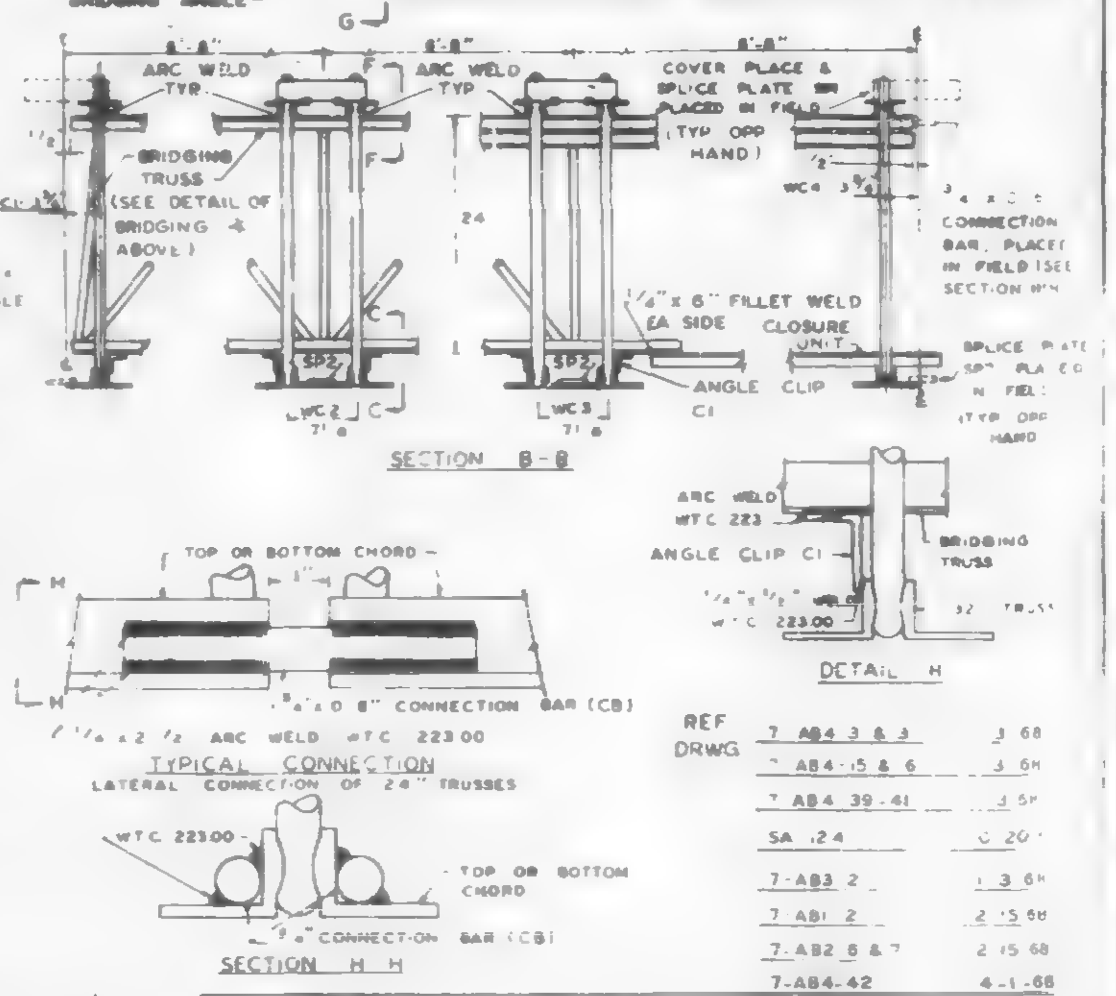
OVERALL LENGTH = 58'-3"
DAMPING SADDLE
CORE END
COLUMN END
TRUSS NO. C32T.M 58'-3" LONG
CLOSURE UNIT (BC)
W = 20'-0"
℄ & DIMENSION HC4 ARE RELATED TO ... BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES
SIZE 20'-0" x 58'-3"
SEE DETAIL
SEE DETAIL D
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES
PATCH PLATES ON BOTTOM CHORD
TOP VIEW DETAIL
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4'-2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
TYP. EACH FLAT
REQUIRED MATERIAL FOR PANEL
MATERIAL
FLOOR TRUSSES
BRIDGING TRUSSES
CONNECTION BAR
CLOSURE UNIT
CONNECTION PLATES
ST 400
CD 204
REVISION
NO
DATE
BY
AUTHORITY
58'-3"
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FILLET.
DRAWN BY
DATE 10.24.68
CHECKED BY T.M.
DATE 10.24.68
FABRICATION CONT. NO.
221
CO.



REQUIRED MATERIAL				REF.
MATERIAL	MK	PCS	SIZE	DWG
FLOOR TRUSSES	C1P	6	C32T1P 57'	
BRIDGING TRUSSES	T11	1	24T11	
	T12	3	24T12	
3"x2"x¼" ANGLE	A1	5	3"x2"x¼"x	ST
	A2	4	3"	
	A3	2	x2"x¼"x5'-10½"	
DIAGONAL FLATS	F1	5		
PATCH PLATES		18	2"x	ST
	PP2	18	3"x 8"	
COVER PLATES	A	3	9"x .0135" x 13'-10½"	
	B	5	9"x .0135" x 18'-2"	
	C	3	x .0135" x 13'-2½"	ST 305
ANGLE CLIPS		21	2"x1½"x¼" x 0'-6"	ST 400
SHEAR ANCHOR	SA3	9	#8 REBAR x 0'-0"	ST 400
DAMPING SADDLE	DUS-1	2	3½"x3½"x⅜"x3'-8⅞"	
	DUS 2	1	3½"x3½"x⅜"x3'-8⅞"	
CONNECTION BAR	CB1	4	1"Ø x 1'-3"	ST 400
CLOSURE UNIT	BC	3	2-1½"x	
			230 x 6'-6½"	CD 294
CONNECTION PLATES	P1	5	3½" x ⅜" x 0'-6½"	ST 400
	P2	4	4½" x .38" x 0'-9"	ST 400
	P3	1	4½" x .38" x 1'-0"	ST 400

PANEL NO CRIA SIZE 20'-0" x 59'-9"





REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T1A	6	C32T1A - 59'-9"	ST201A
BRIDGING TRUSSES	T11	1	[illegible] 19'-11"	BT211
	T12	3	[illegible] 12 - 19'-11"	B[illegible]22
3"x2"x1/4" ANGL		5	3"x2"x1/4"- 19'-11"	ST400
	A2	4	3"x2"x[illegible] x 5'-11"	ST400
	A3	2	3"x2"x1/4"x 5'-11 1/2"	ST400
DIAGONAL FLATS	F1	6	1 1/2"x 5/8" x 6'-8"	ST400
SPLICE PLATES	SP1		2"x1/4"x 0'-9"	CD20[illegible]
	SP2	27	3"x3/8"x 0'-4 1/2"	CD20[illegible]
	SP5	5	2"x1/4"x 0'-6"	CD201
COVER PLATES	A	3	9"x.0135"x 13'-11 1/2"	ST303
	B	6	9"x.0135"x 15'-2	ST303
	C	3	9"x.0135"x 13'-2 1/2"	ST303
	D	3	9"x.0135"x 1'-9"	ST303
ANGLE CLIPS	C1	21	2"x1 1/2"x1/4"x0'-6"	CD201
#8 SHEAR ANCHOR	SA	12	#8 REBAR x 0'-9"	CD20[illegible]
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x3/8"x3'-7 3/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x3/8"x3'-7 3/8"	ST298
CONNECTION BAR	CB	10	3/4"ø x 0'-8"	CD201
CLOSURE UNIT	BC	3	2-4 x 1 1/2" x 1/4 x	BT212
			230 x 6'-4"	CD204

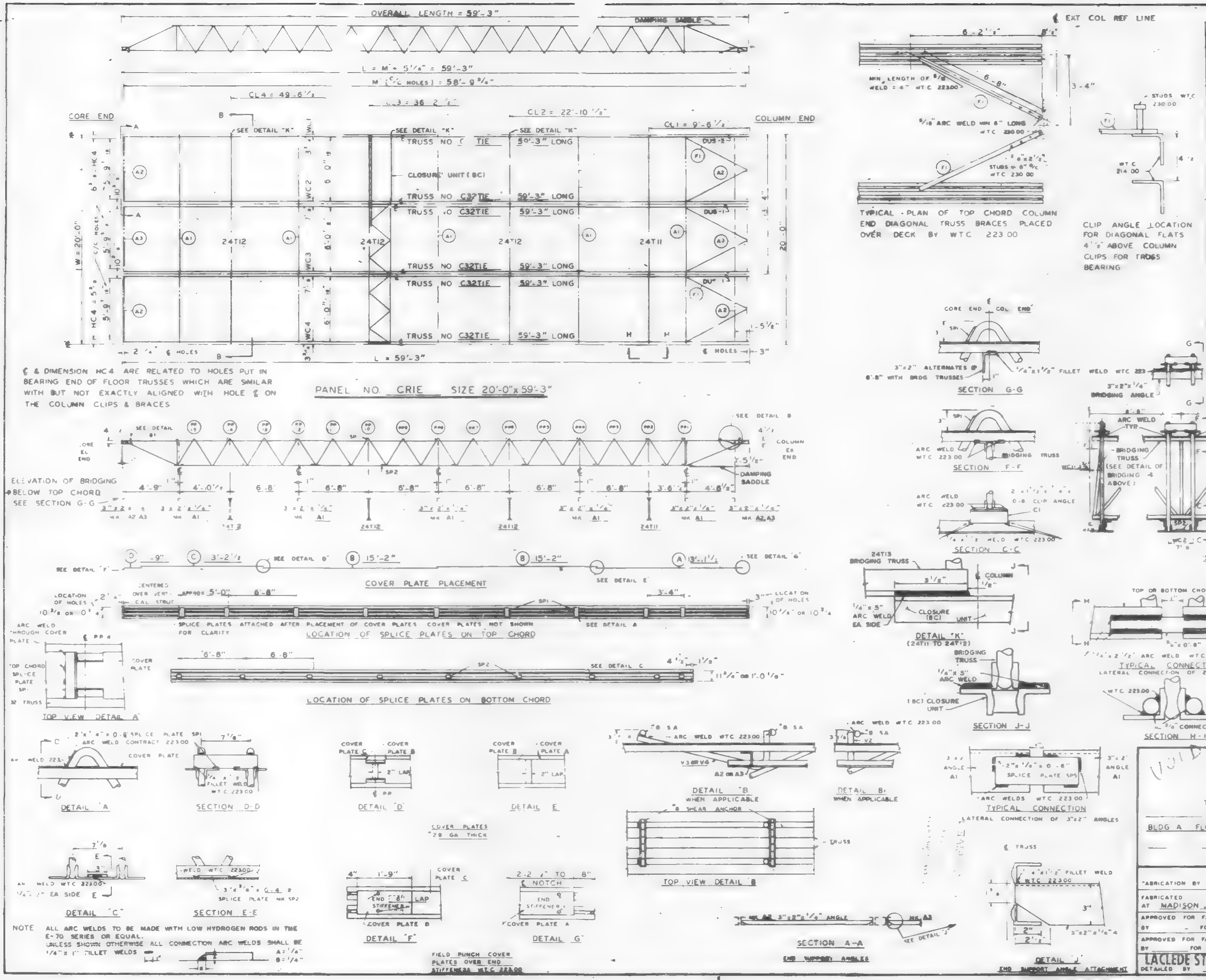
REF DRWG	
7-AB4 3 & 3	3 68
7-AB4-15 & 6	3 68
7-AB4 39-41	3 5[illegible]
SA 24	C 20[illegible]
7-AB3 2	1 3 68
7-AB1 2	2 15 68
7-AB2 6 & 7	2 15 68
7-AB4-42	4-1-68

VOID

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 12-24, 26-38 (NORTH & SOUTH) 45-58, 60-66
68-69 (NORTH) PANEL CRIA - 20'-0" x 59'-9

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-7 4-1-68 PLATE	
APPROVED FOR FABRICATION BY FOR PONYA	DATE	DRAWN BY [illegible] DATE APR. 10, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE APR. 10, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL FA DETAILED BY R.C. WEBER		FABRICATION CONT. NO. WTC 221	SHEET NO FP - CRIA



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIE	6	C32TIE - 59'-3"	ST201E
BRIDGING TRUSSES	T11	1	24" 19'-1"	BT2.1
	T12	3	24" 9'-11"	BT2.2
3"x2"x1/4" ANGLE		3	3"x2"x1/4" x [illegible]	ST [illegible]
	A2	4	3"x2"x1/4" 5'-11 5/16	[illegible] 400
	A3	2	3"x2"x1/4" x 5'-11 1/2	ST 400
DIAGONAL FLATS	F1	6	[illegible]" x 5/8" x 6'-8"	ST 400
SPLICE PLATES	SP1	27	2" x 1/4" x [illegible] 9	CD 20
	SP2	2	3" x 3/8" x 0'-4 1/2"	CD 20
	SP3	5	2" x 1/4" x 0'-8	CD 20
COVER PLATES	A	3	9" x .0135" x 13'-11 1/2	ST 303
	B	6	9" x .0135 x 15'-2	ST 303
	C	3	[illegible] x .0135" x 13'-2 1/2	ST 303
	D	3	9" x .0135" x 1'-9	ST 303
ANGLE CLIPS	C1	21	2" x 1 1/2" x 1/4" x 0'-6	CD 201
#8 SHEAR ANCHOR	SA	9	#8 REBAR x 0'-9	CD 20
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-7 3/8	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-7 3/8	ST 298
CONNECTION BAR	CB	10	3/4" Ø x 0'-6"	CD 20
CLOSURE UNIT	BC	3	2 - 1 1/2" x 1 1/4" x	BT 212
			230 x 6'-4"	CD 204

REF DRWG	
7-AB4-3 & 31	1-3-68
7-AB4-5 & 6	1-3-68
7-AB4-39-41	3-68
SA 124	10-20-67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-6 & 7	2-15-68
7-AB4-42	4-1-68

VOID

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-11 (SOUTH)

PANEL CRIE - 20'-0" x 59'-3

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO 7-AB3-7 4-1-68 PLATE

APPROVED FOR FABRICATION BY FOR PONYA DATE

DRAWN BY [illegible] DATE APR. 10, 1968

APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

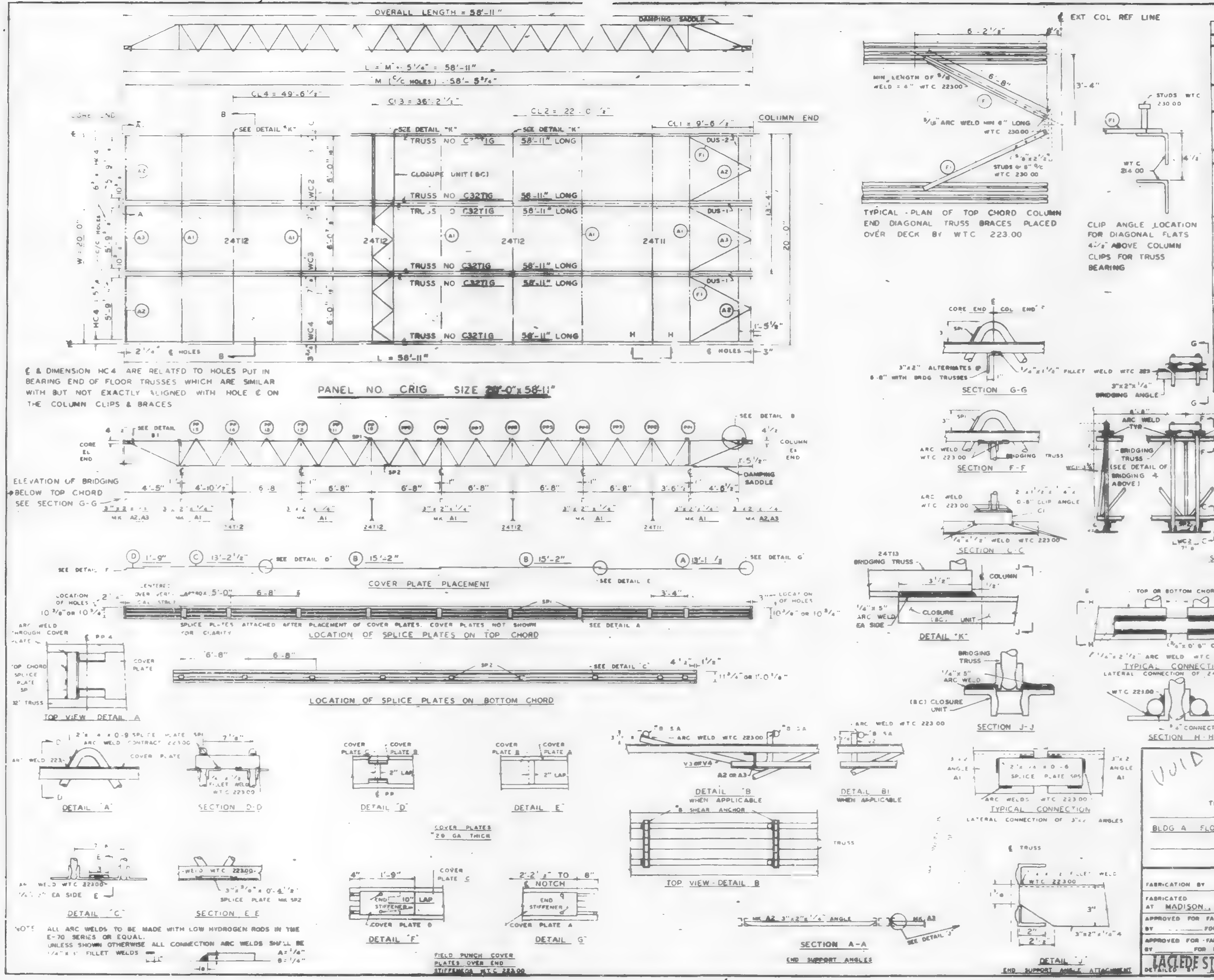
CHECKED BY J.R. PAUL DATE APR. 10, 1968

IN CHARGE OF PROD. DEV.

LACLEDE STEEL CO.
DETAILED BY A.C. WEBER

FABRICATION CONT. NO. 221

SHEET NO FP-CRIE



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	TIG	6	C32TIG - 58'-11"	ST2016
BRIDGING TRUSSES	T11	1	24T 19'-11"	BT211
	T12	3	2[illegible] 19'-11"	[illegible]T212
3"x2"x1/4" ANGLE	A1		3"x2"x1/4"x 19' [illegible]	ST 4[illegible]
	A2	4	3"x2"x1/4" 5'-11 3/4"	[illegible] 400
	A3	2	3"x2"x1/4"x 5'-11 1/2"	ST 400
DIAGONAL FLATS	F1	6	1 1/2"x 5/8"x 8'-6"	ST 400
SPLICE PLATES	SP1	27	[illegible]"x 1/4"x 0'-9"	CD20
	SP2	27	3"x 3/8"x 0'-4 1/2"	CD20
	SP8	5	2"x 1/4"x 0'-6"	CD20
COVER PLATES	A	3	9"x.0135"x 13'-11 1/2"	ST303
	B	6	9"x.0135"x 15'-2"	ST303
	C	3	9"x.0135"x 13'-2 1/2"	ST303
	D	3	9"x.0135"x 1'-0"	ST303
ANGLE CLIPS	C1	21	2"x1 1/2"x 1/4"x 0'-6"	CD20
#8 SHEAR ANCHOR	SA	9	#8 REBAR x 0'-9"	CD20
DAMPING SADDLE	DUS-1	2	3 1/2"x3 1/2"x 3/8"x 3'-7 3/8"	ST298
	DUS-2	1	3 1/2"x3 1/2"x 3/8"x 3'-7 3/8"	ST298
CONNECTION BAR	CB	10	3/4 ⌀ x 0'-6"	CD20
CLOSURE UNIT	BC	3	2 [illegible] 1/2"x 1 1/4"x	BT212
			230 x 6'-4"	CD204

REF DRWG

7-AB4-3 & 31	1-3-68
7-AB4-15 & 16	1-3-68
7-AB4-39 41	[illegible] 3 68
SA 124	[illegible] 20 67
7-AB3-2	1-3-68
7-AB1-2	2-15-68
7-AB2-6 & 7	2-15-68
7-AB4-42	4-1-68

NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FILLET WELDS. A = 3/8", B = 1/4"

VOID

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-11, 39 (NORTH) 39-40 (SOUTH)

PANEL CRIG - 20'-0" x 58'-11

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO 7-AB3-7 4-1-68 PLATE

APPROVED FOR FABRICATION BY ______ FOR PONYA — DATE ______

DRAWN BY [illegible] DATE APR. 10, 1968

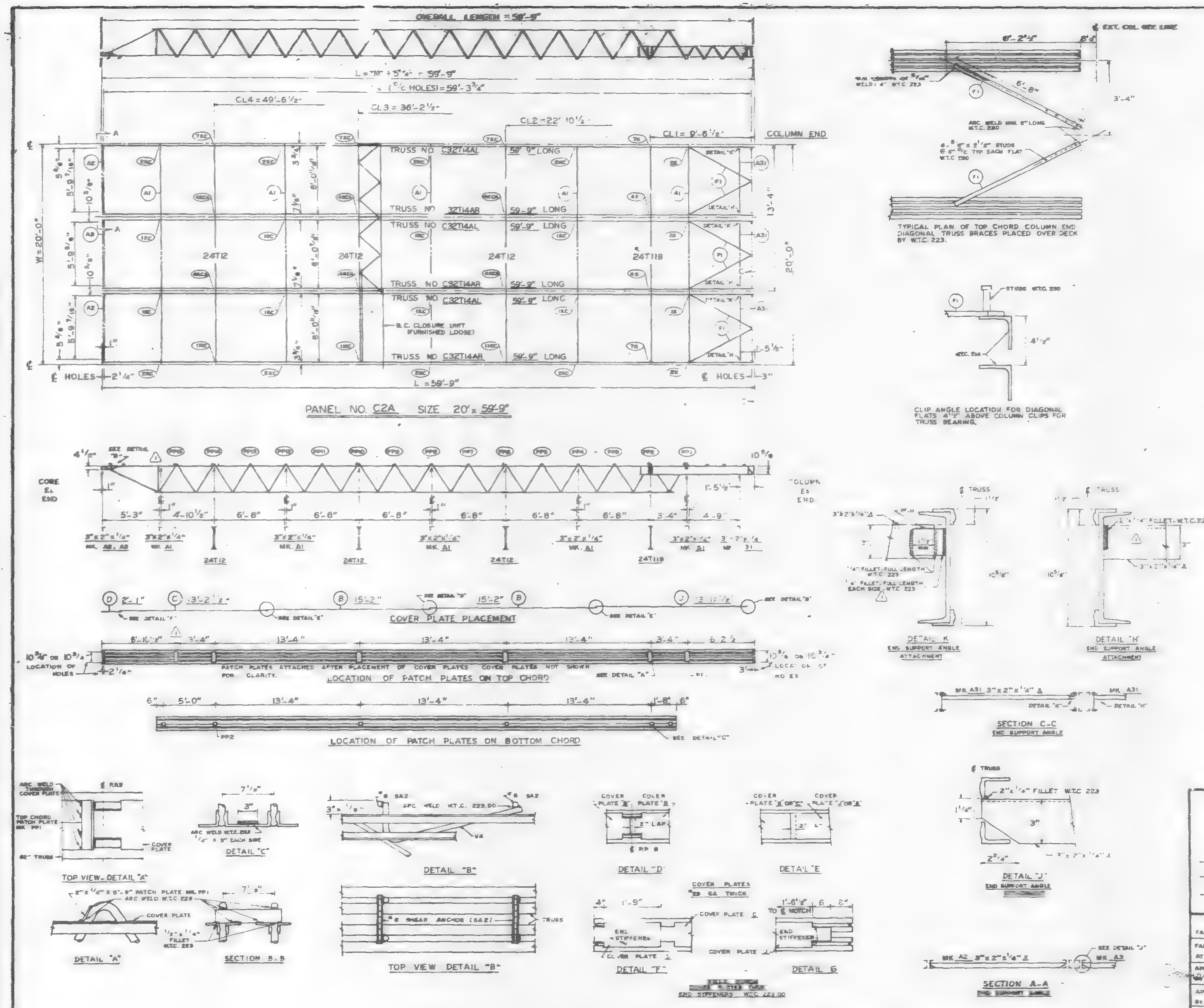
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR — DATE ______

CHECKED BY J.R. PAUL DATE APR. 10, 1968 — IN CHARGE OF PROD. DEV.

LACLEDE STEEL CO. DETAILED BY [illegible]

FABRICATION CONT. NO. W.T.C. 221

SHEET NO FP-CRIG



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	[illegible]	3	C32T14AL x 59'-9"	ST 214AL
	[illegible]	3	C32T14AR x 59'-9"	ST 2 AL
BRIDGING TRUSSES	T118	1	24T118 x 11"	BT 218
	T12	3	24T12 x 19'-11"	BT 212
CLOSURE UNIT	BC	3	1/4" D 6'-6 1/2" TUBE	BT 212
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	2	3" x 2" x 1/4" x 5' 5"	ST 403
	A3	1	3" x 2" x 1/4" x 4"	ST 403
	A31	3	3" x 1/4" x 5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	21	2" x 1 1/2" x .25" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 4'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, i.e. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.

NO	DATE	REVISION	BY
1	2-4-69	AS NOTED	

REF DRWG.

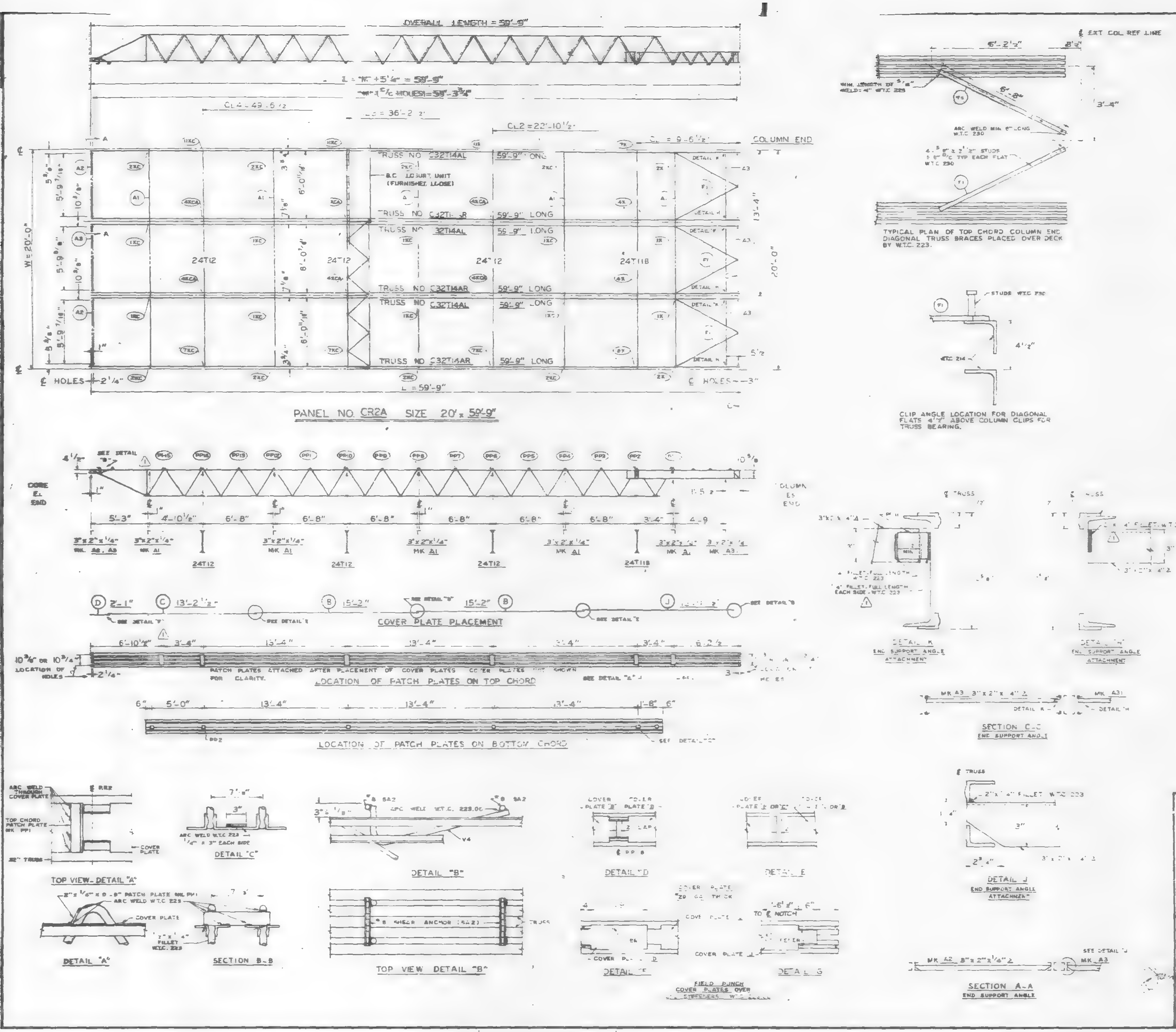
7-A83-28	10-4-68
7-A84-28	7-22-68
7-A81-13	10-4-68
7-A82-7	7-22-68
7-A82-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH) /1\

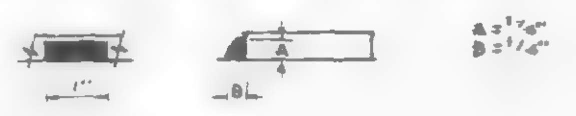
PANEL C2A - 20' x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-A83-28 PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. DATE [illegible]
DRAWN BY [illegible] DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.H. CHUNG DATE DEC. 5, 1968
IN CHARGE OF PROD. DEN
[redacted]
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO FP C2A



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14AL	3	C32T14AL x 59'-9"	ST 214AL
	T14AR	3	C32T14AR x 59'-9"	ST 214AL
BRIDGING TRUSSES	T11B	1	24T11B x 19'-11"	211B
	T12	3	24T12 x 19'	212
CLOSURE UNIT	BC	3	1'-4" x 6'-6 1/2" TUBE	ST 217
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'	ST 40[illegible]
	A2	2	3" x 2" x 1/4" x 5'-11 3/8"	ST 403
	A3	1	3" x 2" x 1/4" x 5'-11 3/4"	ST 403
	A31	3	3" x 2" x 1/4" x [illegible]	ST 410
CLOSURE PLATES	PC1	3	3" x 1/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F1	6	1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP	6	2" x 1/4" x 0'-9"	ST 400
	PP2	16	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C	21	2" x 1 1/2" x .25" x 0'-6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	5	1" ø x 1'-3"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P9	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie.. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 50 & 82 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.



NO	DATE	REVISION		BY
1	2-4-69	AS NOTED		

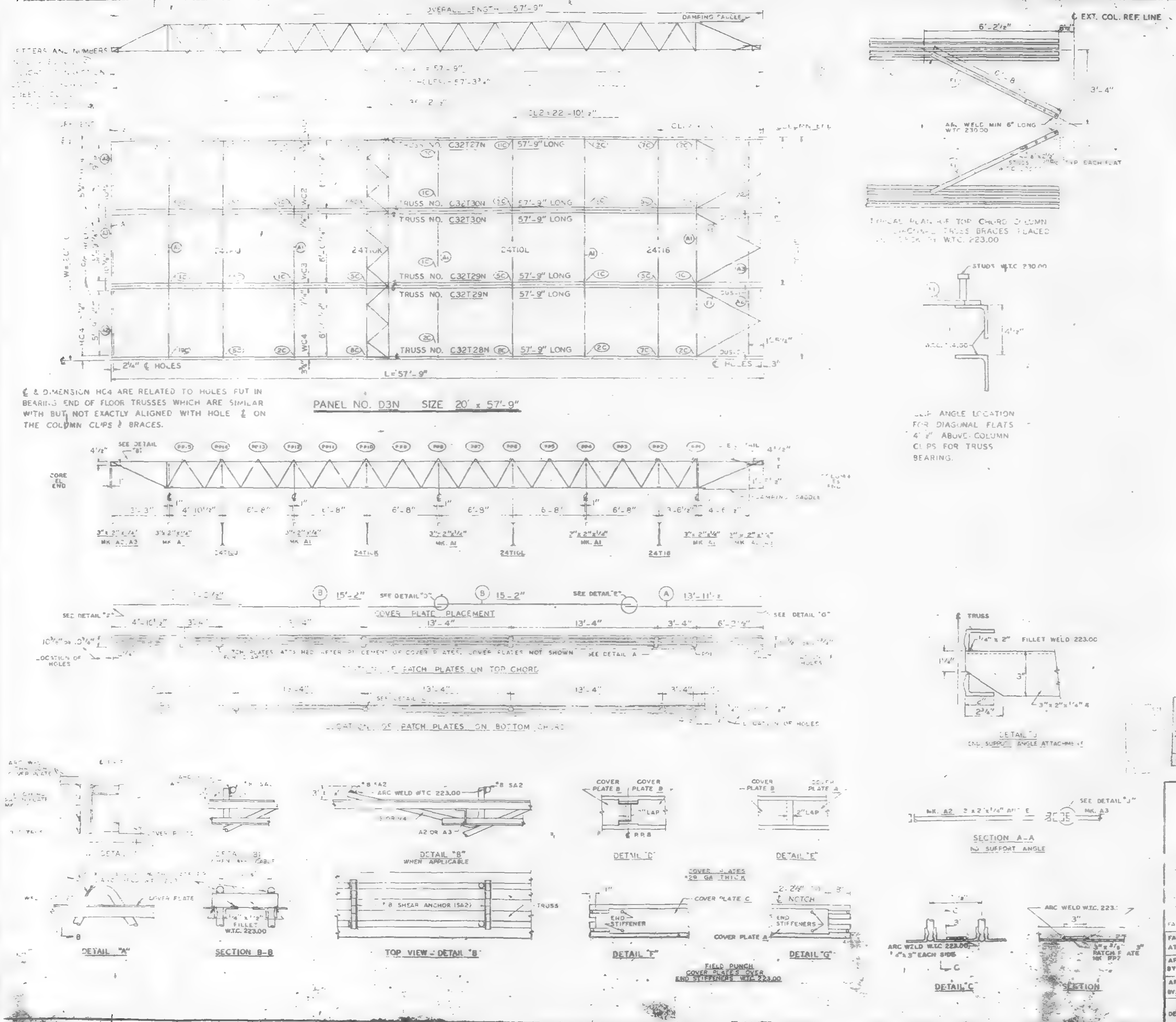
REF DRWG.	
7-AB3-29	10-4-68
7-AB4-28	7-22-68
7-AB1-13	10-4-68
7-AB2-7	7-22-68
7-AB2-15	10-4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)

PANEL CR2A - 20' x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-29 PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. DATE 2/28/69
DRAWN BY [illegible] DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE
CHECKED BY T.H. CHURA DATE DEC. 5, 1968
IN CHARGE OF PROD. DEK
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO FP CR2A



REQUIRED MATERIAL PER PANEL				REF DRWG.
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T27N	1	C32T27N - 57'-9"	ST 227N
	T28N	1	C32T28N - 57'-9"	ST 228N
	T29N	2	C32T29N - 57'-9"	ST 229N
	T30N	2	C32T30N - 57'-9"	ST 230N
BRIDGING TRUSSES	T10J	1	24T10J - 19'-11"	BT 210J
	T10K	1	24T10K - 19'-11"	BT 210K
	T10L	1	24T10L - 19'-11"	BT 210L
	T16	1	24T16 - 19'-11"	BT 216
3"x 2"x ¼" ANGLE	A1	5	3"x 2"x ¼"x 19'-11"	ST 403
	A2	4	3"x 2"x ¼"x 5'-[illegible]	ST 403
	A3	2	3"x 2"x ¼"x 5'-[illegible]	ST 403
DIAGONAL FLATS	F1	6	[illegible]	ST 400
PATCH PLATES	PP	18	[illegible]	ST 400
	PP2	16	[illegible] x 0'-3"	ST 400
COVER PLATES	A	3	9"x .0135"x 13'-[illegible]	ST 303
	B	6	9"x .0135"x 15'-2"	ST 303
	C	3	9"x .0135"x 13'-2½"	ST 303
ANGLE CLIPS	C1	24	[illegible]	ST 401
[illegible] SHEAR ANCHOR	SA2	[illegible]	[illegible]	ST [illegible]
DAMPING SADDLE	DS1	2	[illegible]	ST [illegible]
	DS2		[illegible]	ST [illegible]
[illegible]	CB	4	[illegible]	ST 400
	CB4	5	[illegible] x 0'-10"	ST 400
CONNECTION PLATES	[illegible]	4	[illegible]	ST 400
	P2	1	4½"x .38"x 0'-9"	ST 400
	P3	1	4½"x .38"x [illegible]	ST 400
	P4	3	6½"x ½"x [illegible]	ST 400
	P6	1	4½"x .38"x [illegible]	ST 401

NOTES: (1) ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE ¼" x 1" FULL THROAT FILLET.

NO	DATE	REVISION	BY

REF. DRWGS.

7-AB2-3 & 11	7-24-68
7-AB3-47	1-6-69
7-AB4-3	10-15-68
7-AB4-15 & 16	7-24-68
7-AB4-42	10-15-68
[illegible]-24	[illegible]-68
7-AB1-5	[illegible]-68
[illegible]AB1-2 & 3	7-24-68

4/23/69 SK

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

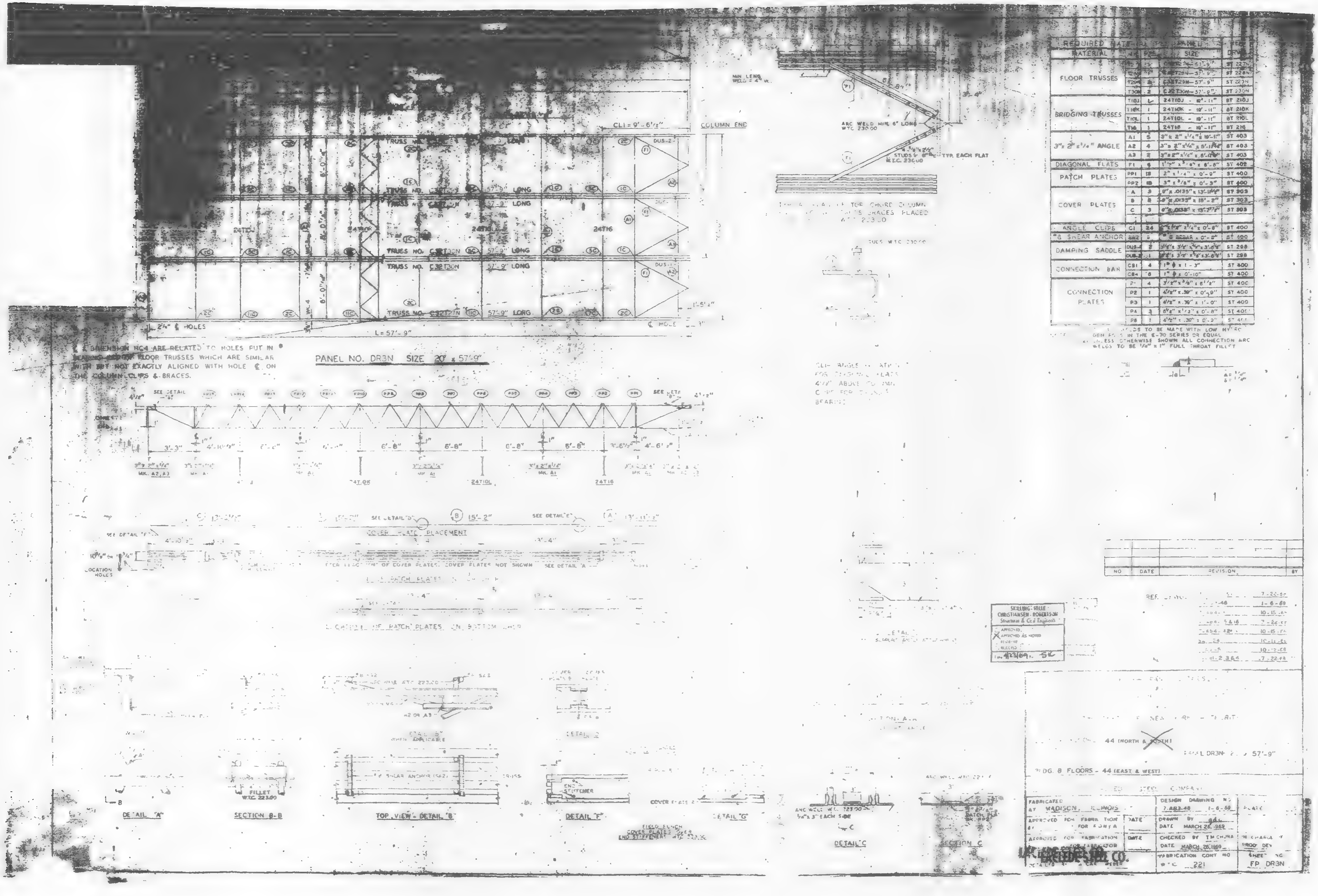
BLDG. A FLOORS 44 (NORTH & SOUTH)

PANEL D3N - 20' x 57'-9"

BLDG. B FLOORS 44 (EAST & WEST)

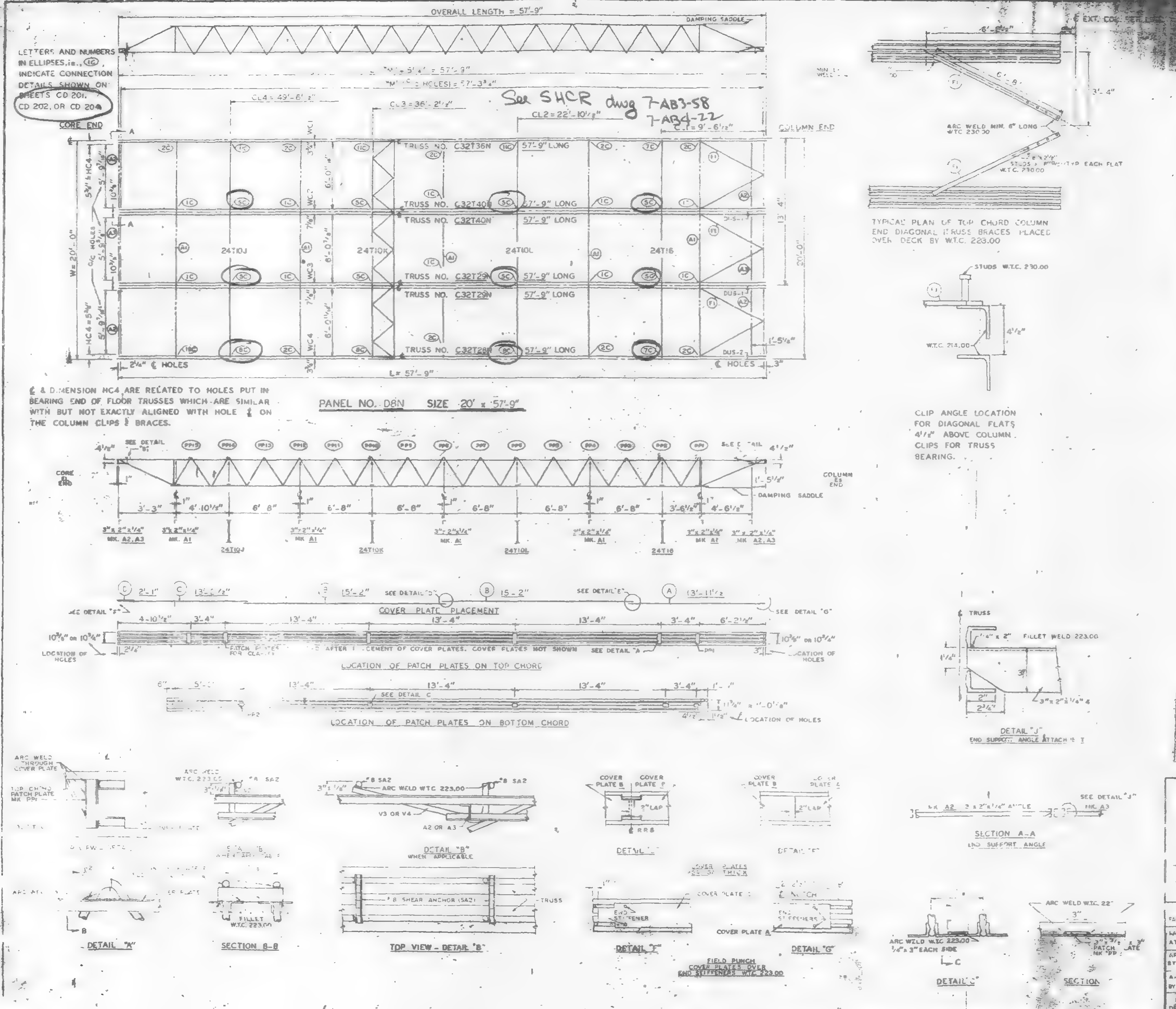
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB2-47	PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A.	DATE	DRAWN BY: g.d.c. DATE MARCH 26, 1969	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY: T.M. CHURA DATE MARCH 26, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY: A. CARL WEBER		FABRICATION CONT. NO W.T.C. 221	SHEET NO FP D3N



REQUIRED MATERIAL				
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T27	[illegible]	C32T27N—57'-9"	ST 227N
	T28N	[illegible]	C32T28N—57'-9"	ST 228N
	T29N	2	C32T29N—57'-9"	ST 229N
	T30N	2	C32T30N—57'-9"	ST 230N
BRIDGING TRUSSES	T10J	1	24T10J - 18'-11"	ST 210J
	T10K	1	24T10K - 18'-11"	ST 210K
	T10L	1	24T10L - 18'-11"	ST 210L
	T16	1	24T16 - 18'-11"	ST 216
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 18'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-1 1/4"	ST 403
	A3	2	3" x 2" x 1/4" x 8'-0"	ST 403
DIAGONAL FLATS	F1	6	1 1/2" x 3/8" x 8'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	3	9" x .0135" x 13'-1 1/4"	ST 303
	B	3	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 7/8"	ST 303
ANGLE CLIPS	C1	24	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
3/8 SHEAR ANCHOR	SA2	8	[illegible] x 0'-5"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 1/4" x 3'-6 3/4"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 1/4" x 3'-6 3/4"	ST 298
CONNECTION BAR	CB1	4	1" ϕ x 1-3"	ST 400
	CB4	6	1" ϕ x 0'-10"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	1	4 1/2" x .30" x 0'-9"	ST 400
	P3	1	4 1/2" x .30" x 1'-0"	ST 400
	P4	3	8 1/2" x 1/2" x 0'-8"	ST 405
	P8	1	4 1/2" x .30" x 0'-9"	ST 4[illegible]

WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE 1/8" x 1" FULL THROAT FILLET



[illegible]	[illegible]	[illegible]	[illegible]	REF. DRWG.
FLOOR TRUSSES	[illegible]	[illegible]	[illegible] 57'-9"	[illegible]
	T29N	[illegible]	C32T29N - 57'-9"	ST 229N
	T36N	1	C32T36N - 57'-9"	ST 236N
	T40N	2	C32T40N - 57'-9"	ST 240N
BRIDGING TRUSSES	T10J	1	24T10J - 19'-11"	ST 210J
	T10K	1	24T10K - 19'-11"	ST 210K
	T10L	1	24T10L - 19'-11"	ST 210L
	T16	1	24T16 - 19'-11"	ST 216
3" x 2" x 1/4" ANGLE	A1	5	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-1[illegible]	ST 403
	A3	2	3" x 2" x 1/4" x 6'-1[illegible]	ST 403
DIAGONAL FLATS	F1	8	1 1/2" x 5/8" x 8'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	A	3	9" x .0135" x 13'-11 1/2"	ST 303
	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	6" x .0135" x 2'-1"	ST 304
ANGLE CLIPS	C1	24	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
#8 SHEAR ANCHOR	SA2	9	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST 298
	DUS-2	1	3 1/2" x 3 1/2" x 3/8" x 3'-8 7/8"	ST 298
CONNECTION BAR	CB1	4	1" φ x 1'-3"	ST 400
	CB4	6	1" φ x 0'-10"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 8 1/2"	ST 400
	P2	1	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P4	3	6 1/2" x 1/2" x 0'-8"	ST 400
	P6	1	4 1/2" x .39" x 0'-9"	ST 401

NOTES:
(1) ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE 1/4" x 1" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

NO	DATE	REVISION	BY

SKILLING-HELLE CHRISTIANSEN-ROBERTSON
Structural & Civil Engineers
4/23/69 GK

REF. DRWGS.	
7-AB2-5 & 11	7-26-68
7-AB3-58	1-6-69
7-AB4-3	10-15-68
7-AB4-5 & 16	7-26-68
7-AB4-42	[illegible]-68
SP-124	[illegible]-68
7-AB1-5	10-15-68
7-AB1-2 & 3	7-26-68

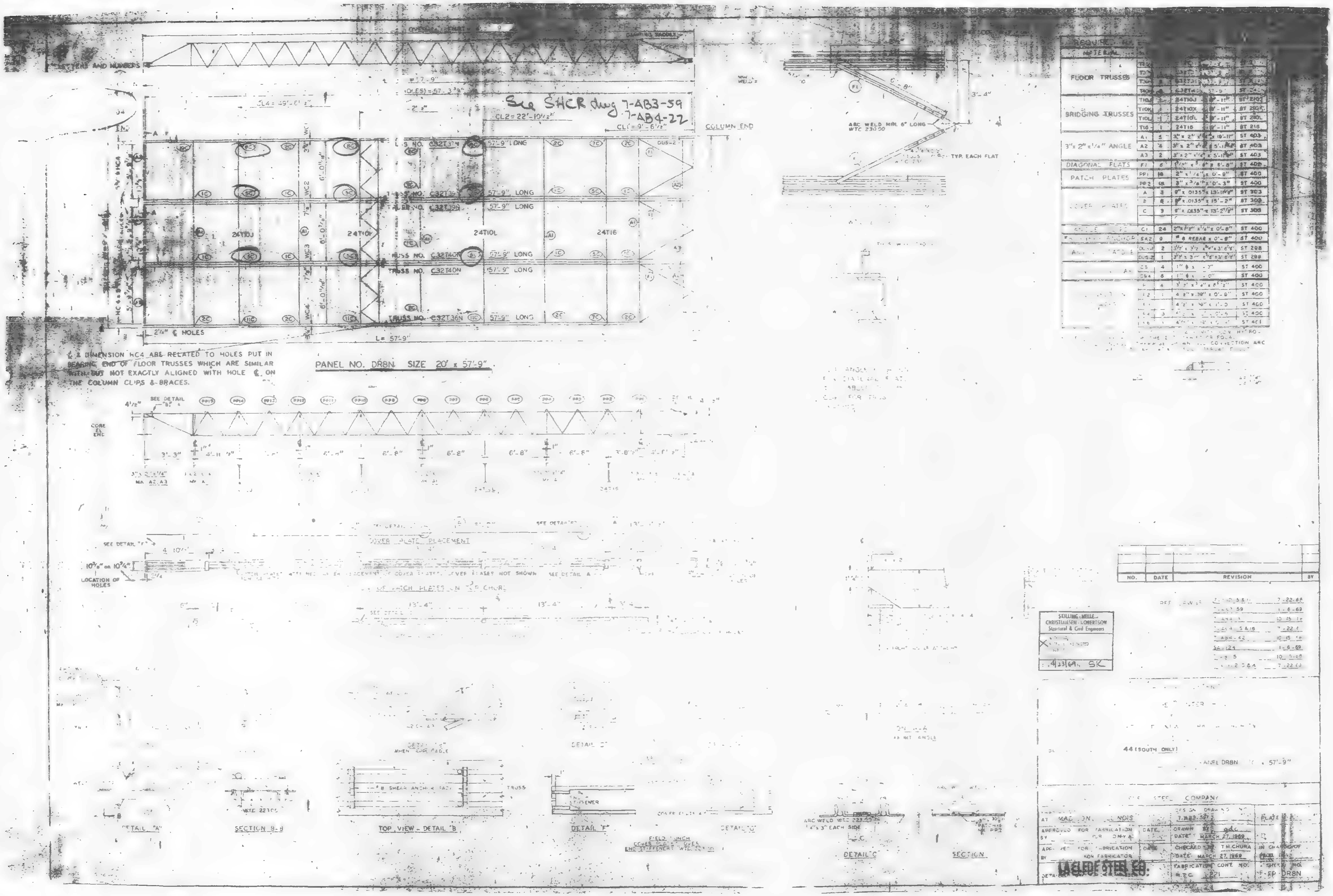
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 44 (SOUTH ONLY)

PANEL D8N - 20' x 57'-9"

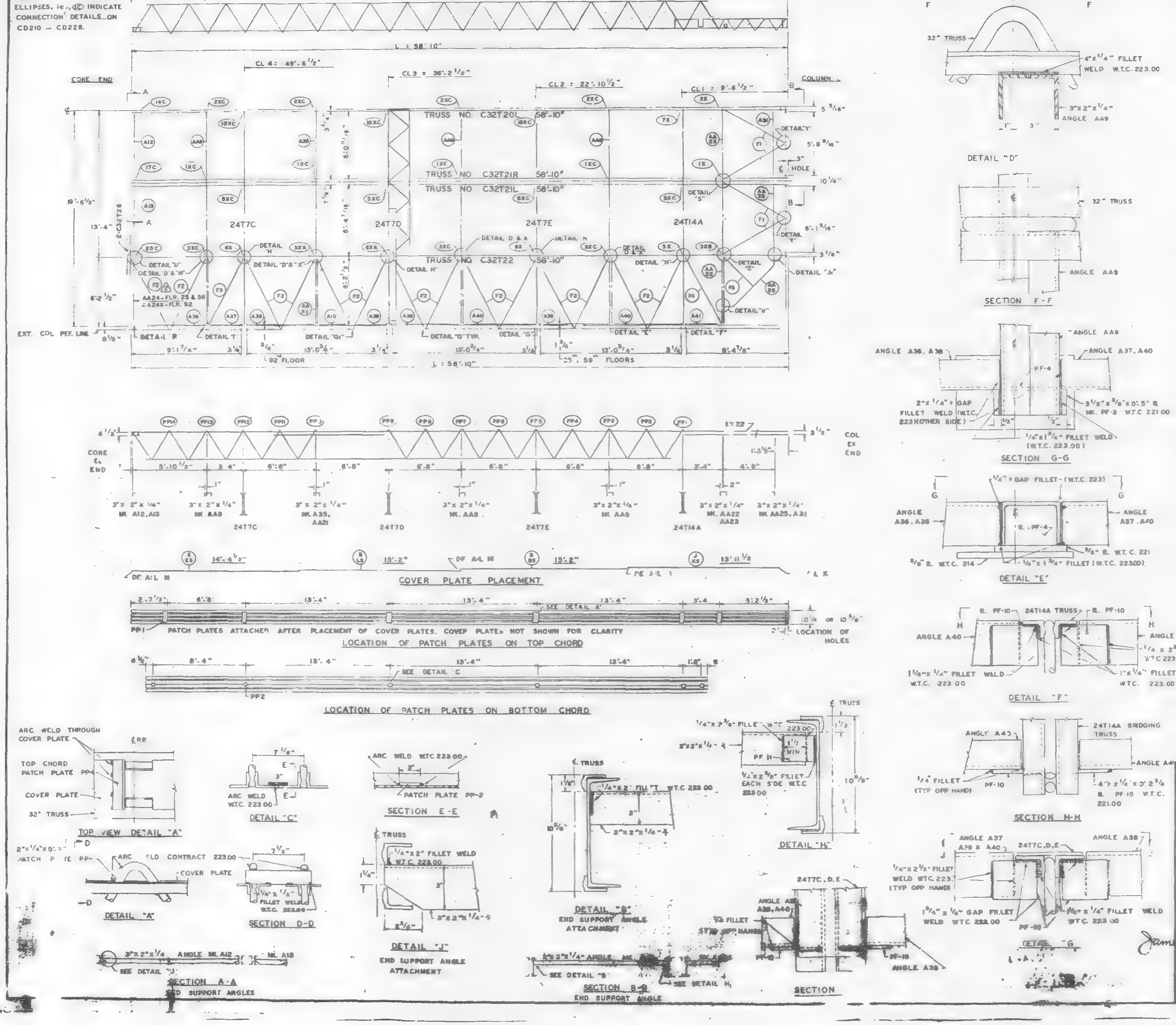
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING 7-AB3-58	PLATE
APPROVED FOR FABRICATION BY ___ FOR P.O.N.Y.A.	DATE	DRAWN BY gdc DATE MARCH 26, 1969	
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR	DATE	CHECKED BY: T.M.CHURA DATE MARCH 26, 1969	IN CHARGE OF PROD. JEV
[redacted] DETAILED BY A CARL WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO. FP D8N



See SHCR dwg 7-AB3-59
7-AB4-22
COLUMN END
FLOOR TRUSSES
BRIDGING TRUSSES
3" x 2" x 1/4" ANGLE
DIAGONAL FLATS
PATCH PLATES
TRUSS NO. C32T40N 57'-9" LONG
TRUSS NO. C32T36N 57'-9" LONG
24T10J
24T10L
24T16
L= 57'-9"
2 1/4" ℄ HOLES
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
PANEL NO. DR8N SIZE 20' x 57'-9"
COVER PLATE PLACEMENT
LOCATION OF HOLES
ARC WELD MIN. 6" LONG WTC 23000
TYP. EACH FLAT
NO.
DATE
REVISION
BY
SKILLING · HELLE · CHRISTIANSEN · ROBERTSON
Structural & Civil Engineers
4/23/69 SK
44 (SOUTH ONLY)
DETAIL "A"
SECTION 9-9
TOP VIEW - DETAIL "B"
DETAIL "F"
DETAIL "C"
SECTION
DRAWN BY
DATE MARCH 27, 1969
CHECKED BY T.H. CHURA
DATE MARCH 27, 1969
FABRICATION CONT. NO.
LACLEDE STEEL CO.
DR8N

NUMBERS AND LETTERS IN ELLIPSES, ie., (C) INDICATE CONNECTION DETAILS ON CD210 – CD228.



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	T20L	1	C32T20L-58'-10"	ST220L
	T21L	1	C32T21L-58'-10"	ST221L
	T21R	1	C32T21R-58'-10"	
	T22	1	C32T22-58'-10"	ST222
BRIDGING TRUSSES	T7C	1	24T7C-19'-6"	BT207C
	T7D		24T7D-19'-6"	BT207D
	T7E	1	24T7E-19'-6"	BT207E
	T14A	1	24T14A-19'-6"	BT214A
3"x 2"x 1/4" ANGLES	A10	1	3"x2"x1/4"x2'-7 15/16"	ST404
	A12		3"x2"x1/4"x5'-11 11/16"	ST404
	A13		3"x2"x1/4"x6'-3 7/16"	ST404
	A31	1	3"x2"x1/4"x5'-8 1/8"	ST410
	A36	1	3"x2"x1/4"x5'-11 1/2"	ST410
	A37	1	3"x2"x1/4"x2'-10"	ST410
	A38	3	3"x2"x1/4"x6'-4"	ST410
	A39	1	3"x2"x1/4"x2'-9"	ST410
	A40	2	3"x2"x1/4"x6'-2"	ST410
	A41	1	3"x2"x1/4"x2'-10 3/4"	ST410
	A35	1	3"x2"x1/4"x13'-3"	ST410
ANGLE ASSEMBLY	AA21	1	SEE REF. DRWG.	ST411
*AA24 IS REPLACED BY AA24X ON FLR. 92.	AA22	1	SEE REF. DRWG	ST411
(2)	AA23	1	SEE REF. DRWG.	ST411
	*AA24	1	SEE REF. DRWG.	ST412
	AA25	1	SEE REF. DRWG.	ST412
	AA26	1	SEE REF. DRWG.	ST412
	AA9	3	SEE REF. DRWG.	ST404
PATCH PLATES	PP1	6	2"x1/4"x 0'-9"	ST400
	PP2	6	3"x3/8"x 0'-3"	ST400
COVER PLATES	A	1	9"x 0135"x 13'-11 1/2"	ST303
	Ks	1	3 1/2"x 0135"x 13'-11 1/2"	ST304
	B	2	9"x 0135"x 15'-2	ST303
	Bs	1	3 1/2"x 0135"x 15'-2"	ST303
	Ls	1	3 1/2 x .0135"x 15'-2"	ST304
	E	1	9"x 0135"x 14'-4 1/2"	ST303
	Es	1	3 1/2"x 0135"x 14'-4 1/2"	ST303
(2) ANGLE CLIPS**	C1	12	2"x1 1/2"x .25"x 6"	ST400
	C2	4	2 1/2"x1 1/2"x .25"x 6"	
DIAGONAL FLATS	F1	4	1 1/2"x 5/8"x 6'-8"	ST402
	F2 / F2R	7 / 7	1 1/2"x 5/8"x 6'-10 1/2"	ST402
	F3	1	1 1/2"x 5/8"x 6'-11 1/4"	ST402
	F4	1	1 1/2"x 5/8"x 7'-0"	ST402
	F5	1	1 1/2"x 5/8"x 4'-4"	ST402
MISC. PLATES	PF-1	2	1 1/2"x 1/2"x 0'-4"	ST400
	PF 3	5	3 1/2"x 3/8 x 0'-5"	ST400
	PF 7	1	5"x 3/8"x 0'-4"	ST401
	PF 8	5	3 1/2"x 1/4"x 0'-2 7/8"	ST401
	PF-10	8	4 1/2"x 1/4"x 0'-2 3/4"	ST401
	PF 11	1	3"x 1/4"x 0'-2 3/8"	ST412
EXTENDED END	EX	1	SEE REF. DRWG	ST222
	22			

(2) ** NUMBER OF PIECES OF MK. C1 & C2 WILL BE CORRECT AFTER FLOOR 32, TOWER A.
PIECES FOR FLOORS 10-32 IS C1, NONE – C2, SIXTEEN (16).

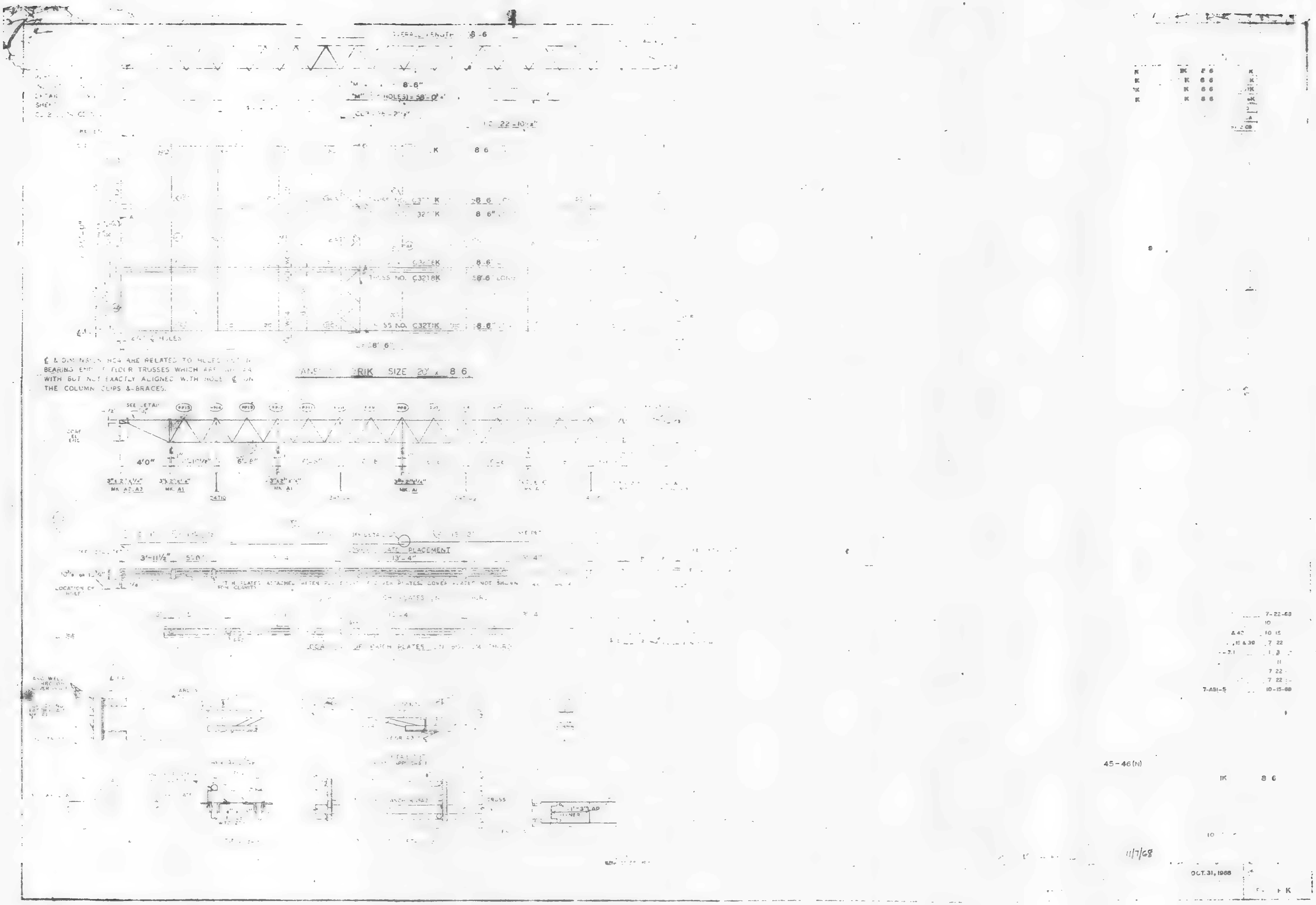
NO.	DATE	REVISION	BY
(2)	7-1-69	AS NOTED	G.D.C.
(1)	2-5-69	GENERAL	G.D.C.

SEE SHEET FP F2-2 FOR NOTES, REF. DRWG & ADDITIONAL DETAILS

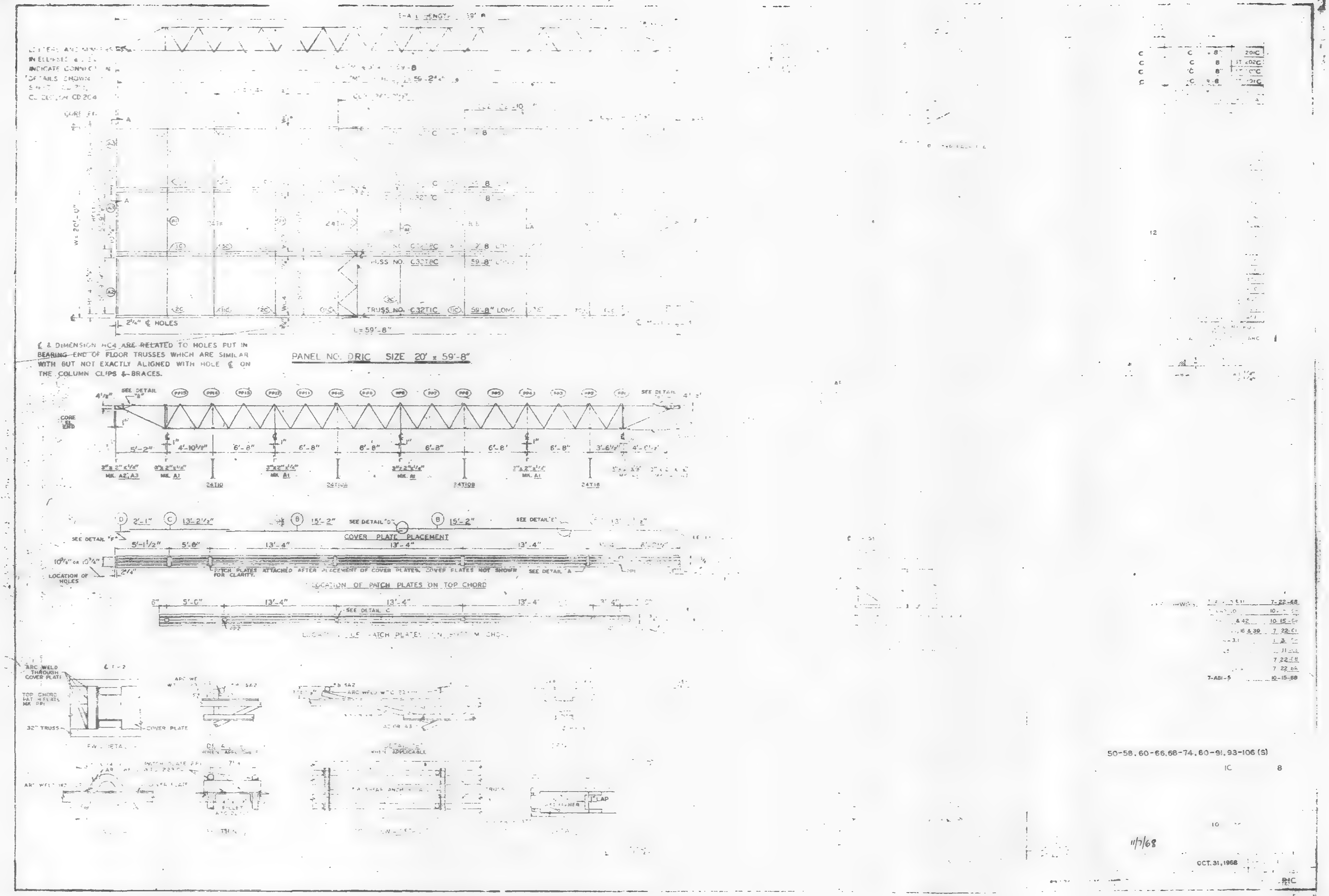
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 25, 59 & 92 (NORTH & SOUTH)
PANEL F2 19'-6" x 58'-10"
BLDG. B FLOORS 25, 59 & 92 (EAST & WEST) (2)

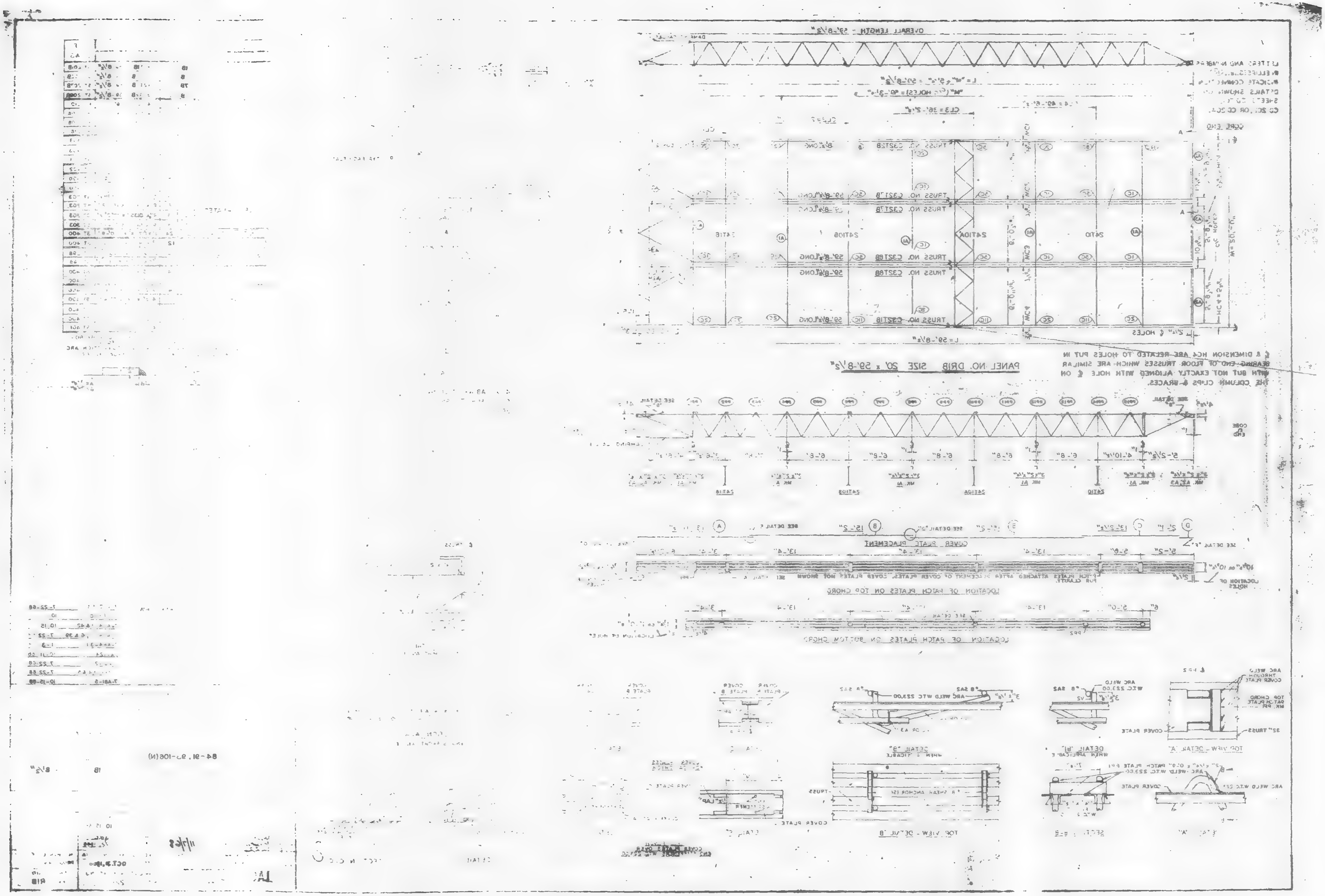
FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-34
PLATE
APPROVED FOR FABRICATION BY: James [signature] FOR P.O.N.Y.A. DATE 7/10/69
DRAWN BY: [initials] DATE DEC. 3, 1968
APPROVED FOR FABRICATION BY: FOR FABRICATOR LACLEDE STEEL CO. DATE
CHECKED BY: T.M.CHURA DATE DEC. 4, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY: A. CARL WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-F2

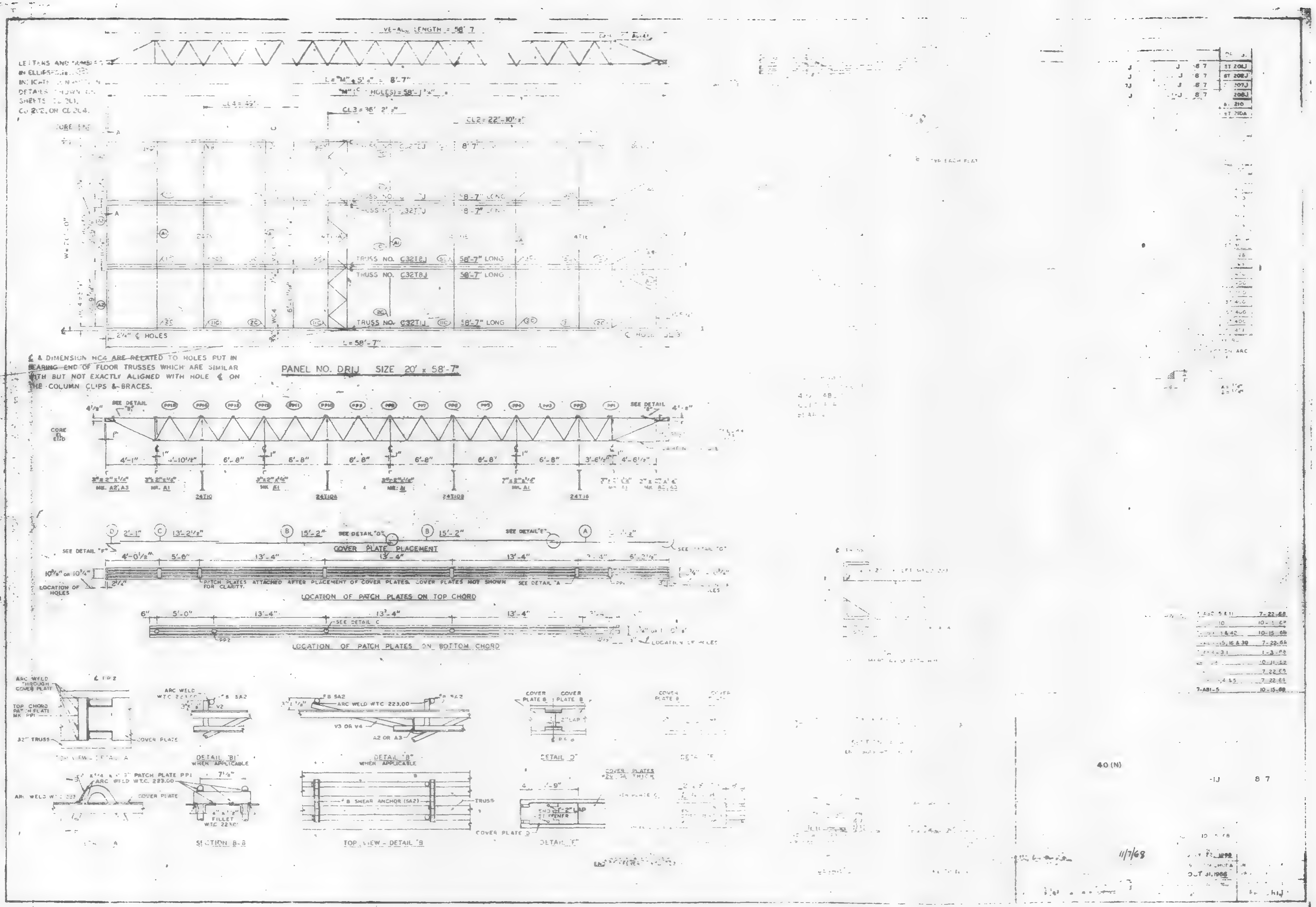


TRUSS NO. C3218K
4'0"
3'-11½"
13'-4"
1'-3" LAP
7-22-68
10-15-68
45-46 (N)
11/7/68
OCT. 31, 1968

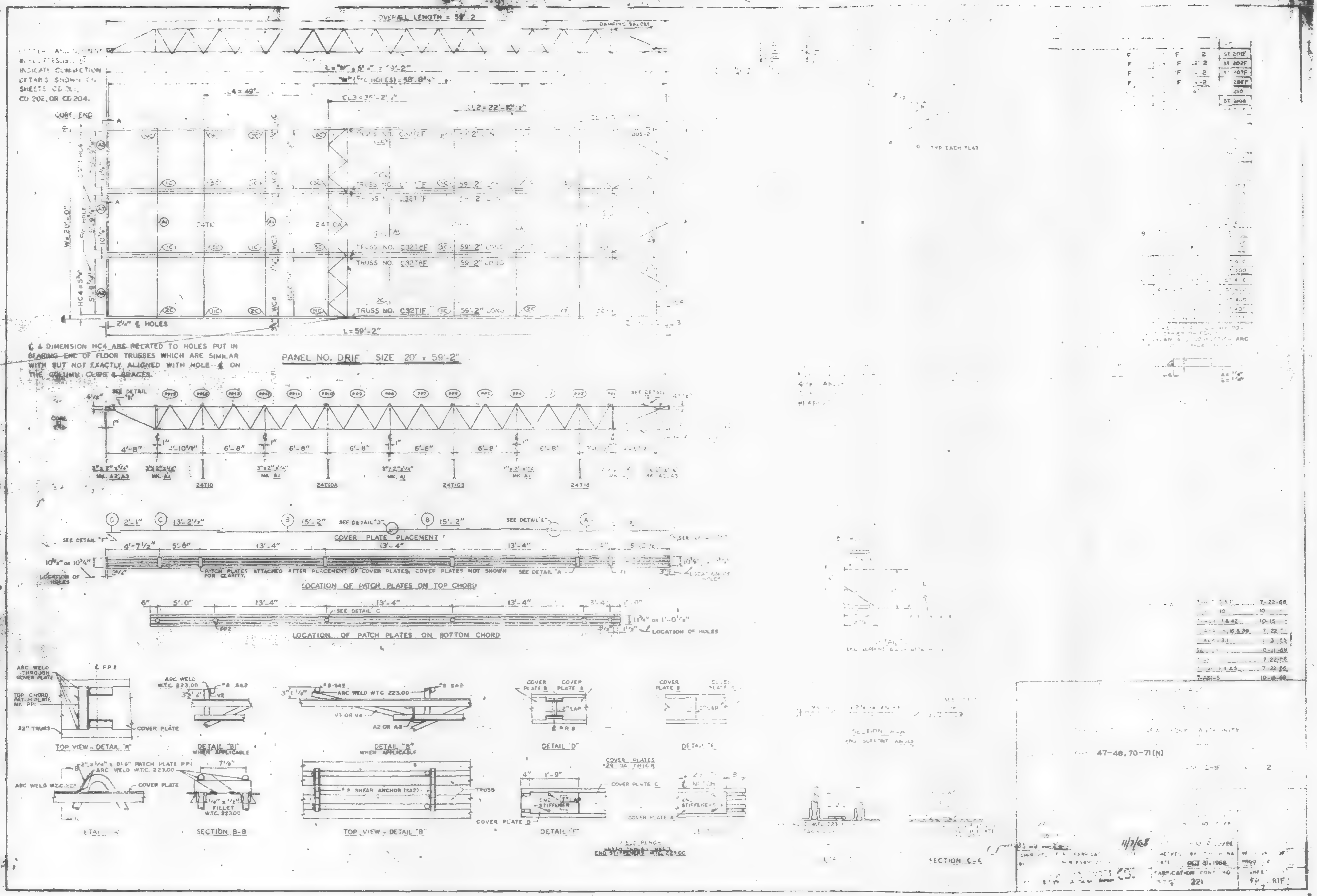


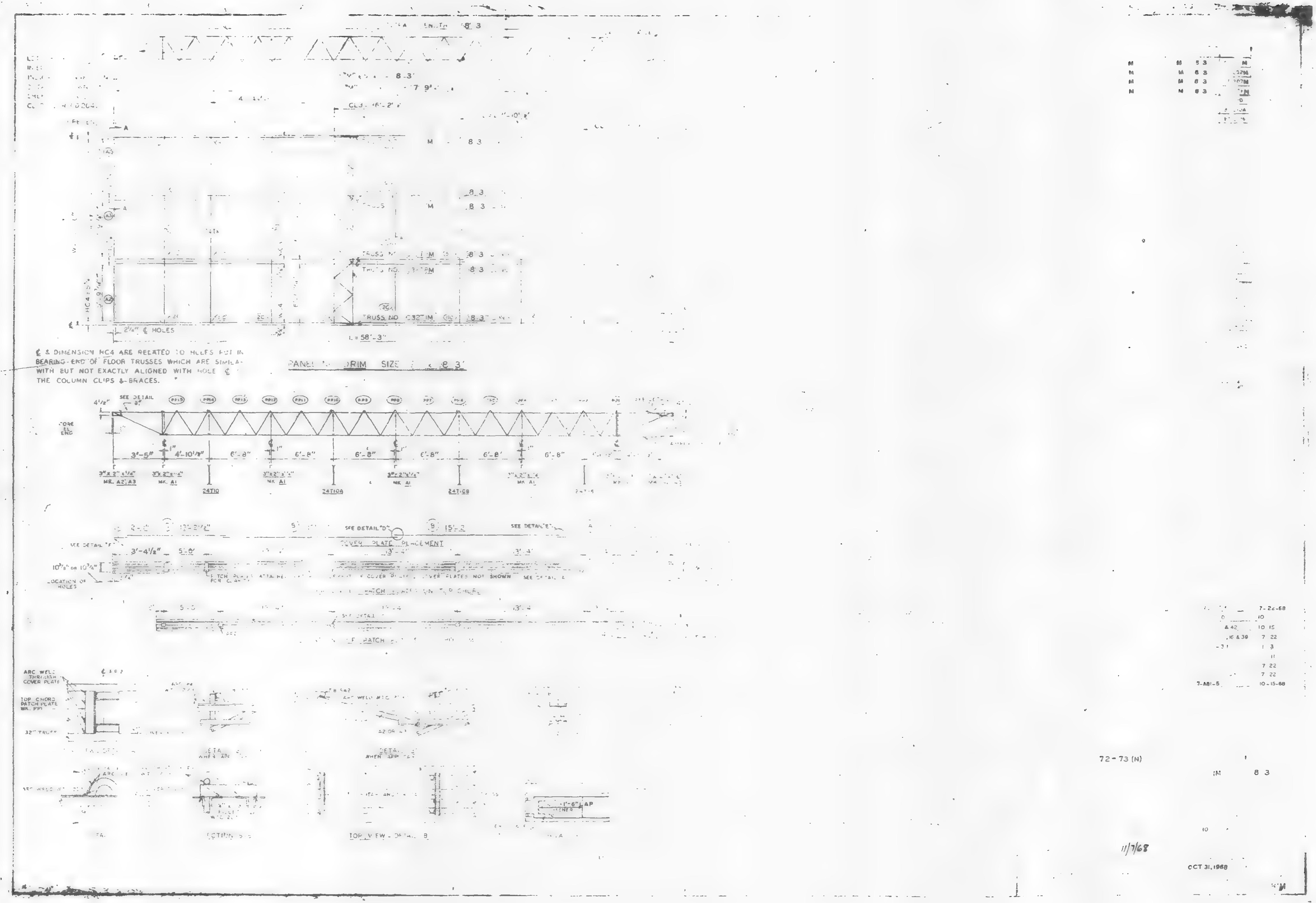
PANEL NO. DRIC SIZE 20' x 59'-8"
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
TRUSS NO. C32T8C
TRUSS NO. C32T1C
59'-8" LONG
2¼" ℄ HOLES
L=59'-8"
SEE DETAIL "B"
24T1B
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "F"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
SEE DETAIL "A"
LOCATION OF HOLES
LOCATION OF PATCH PLATES ON TOP CHORD
SEE DETAIL "C"
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
32" TRUSS
COVER PLATE
WHEN APPLICABLE
LAP
50-58, 60-66, 68-74, 80-91, 93-106 (S)
11/7/68
OCT. 31, 1968


OVERALL LENGTH = 59'-8 1/2"
PANEL NO. DRIB SIZE 20' x 59'-8 1/2"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD

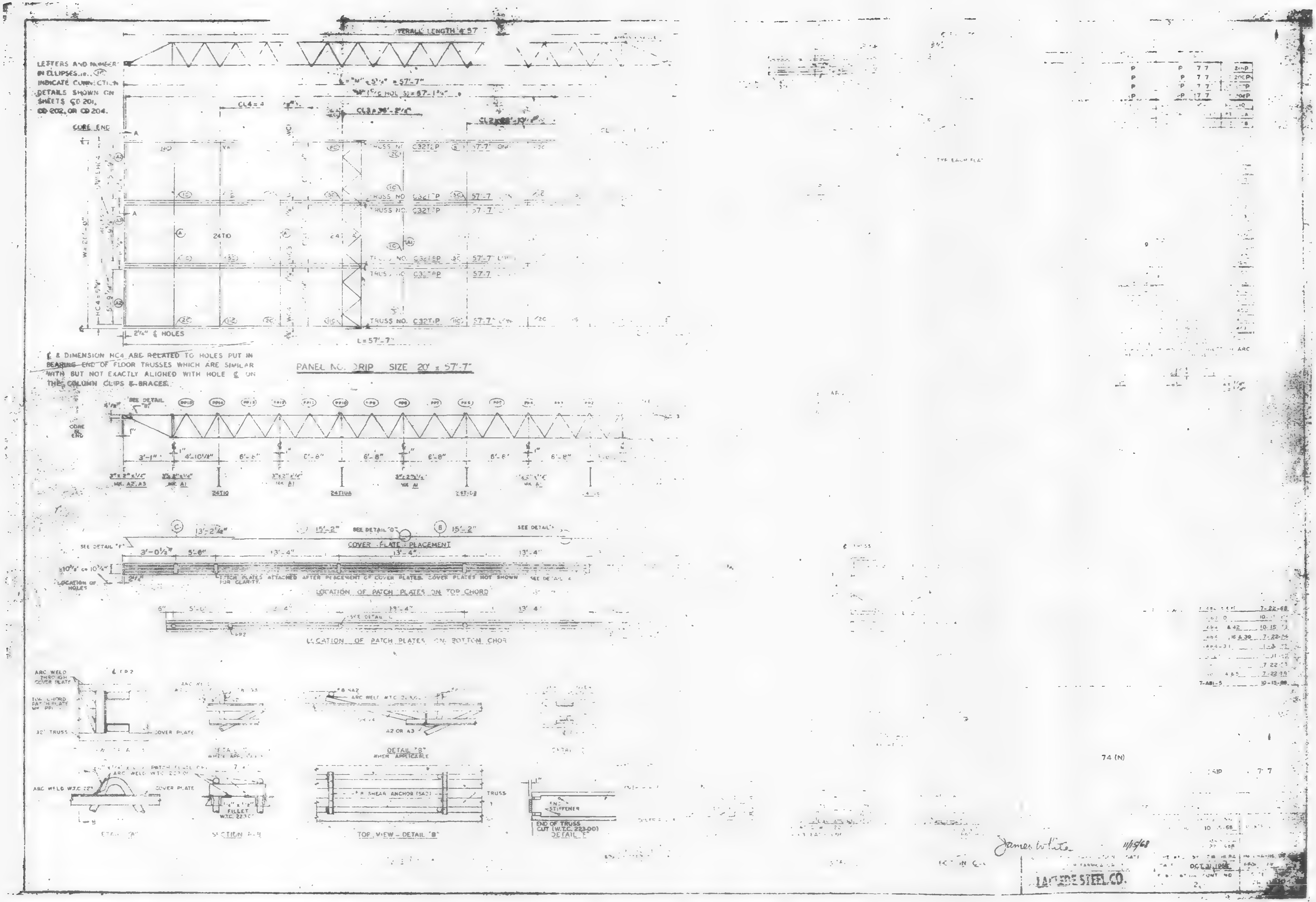


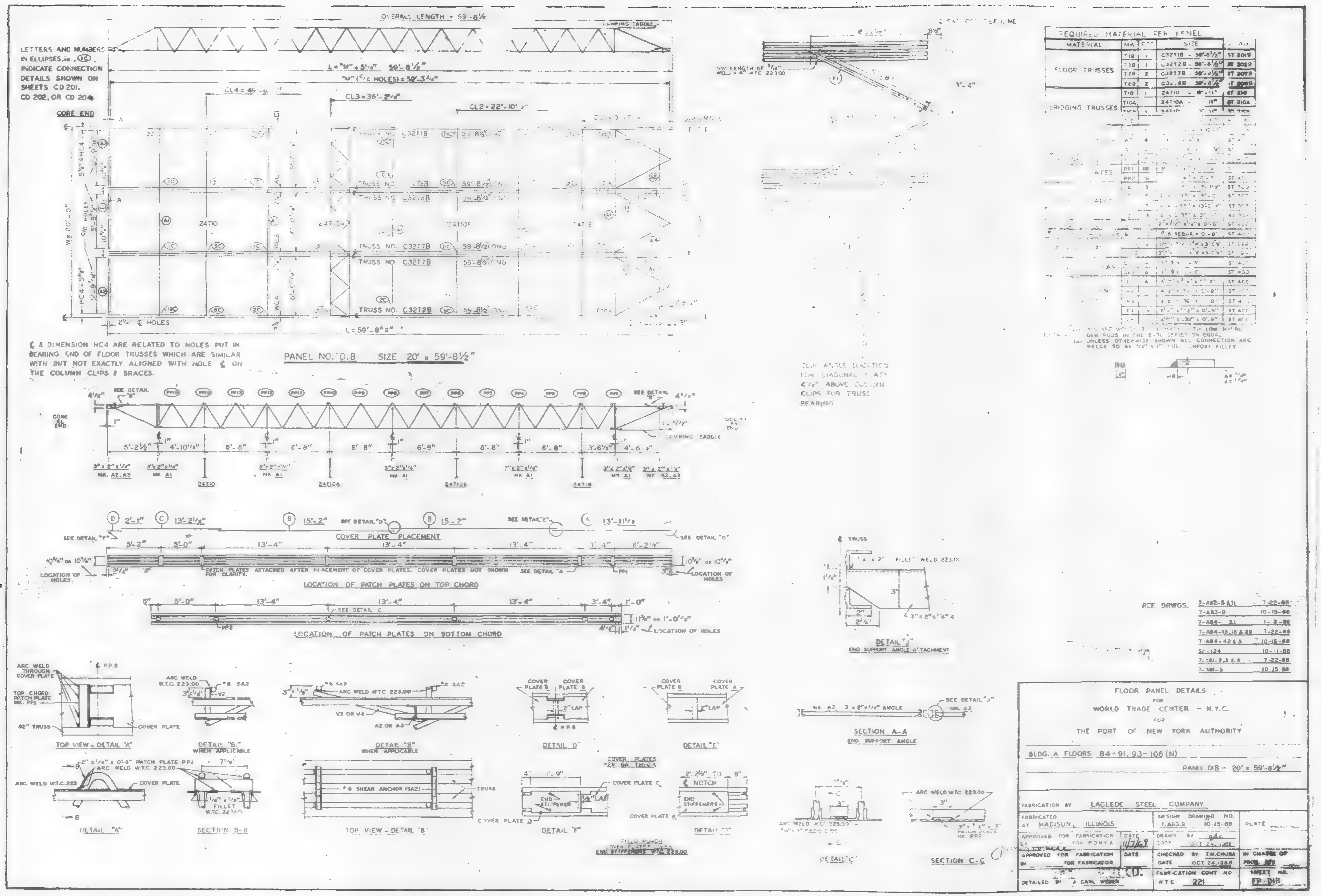
PANEL NO. DR1J SIZE 20' x 58'-7"
TRUSS NO. C32T8J 58'-7" LONG
TRUSS NO. C32T8J 58'-7" LONG
TRUSS NO. C32T1J 58'-7" LONG
L = 58'-7"
2¼" ℄ HOLES
℄ & DIMENSION WC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
CORE ℄ END
24T10
24T10A
24T10B
24T18
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF HOLES
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE
32" TRUSS
COVER PLATE
DETAIL "B1" WHEN APPLICABLE
ARC WELD W.T.C. 223.00
DETAIL "B" WHEN APPLICABLE
V3 OR V4
A2 OR A3
DETAIL "D"
COVER PLATES
SECTION B-B
TOP VIEW - DETAIL "B"
SHEAR ANCHOR (5A2)
TRUSS
COVER PLATE D
DETAIL "E"
40 (N)
11/7/68
OCT 31, 1968

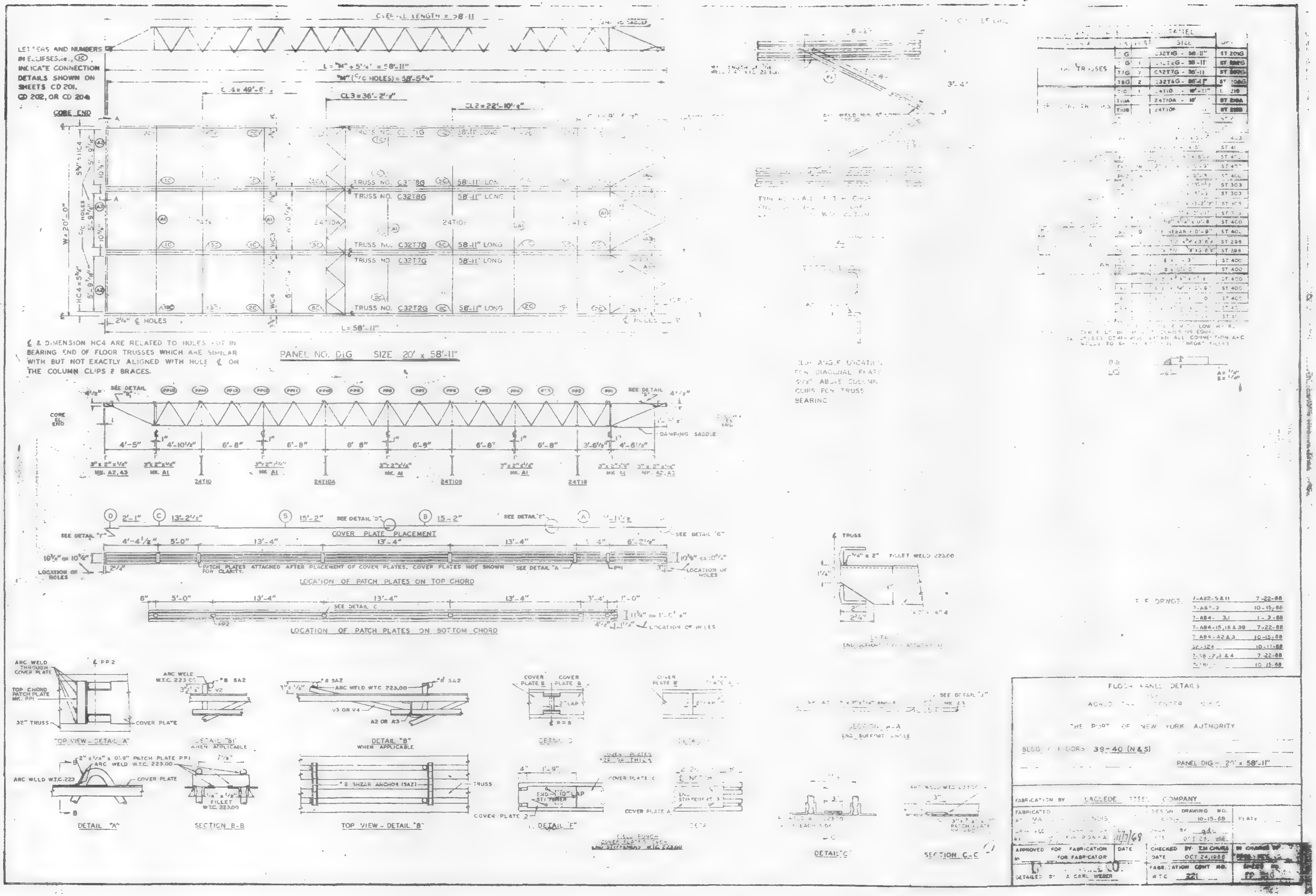

OVERALL LENGTH = 59'-2
INDICATE CONNECTION
DETAILS SHOWN ON
CD 202, OR CD 204.
CORE END
L = 59'-2"
W = 20'-0"
CL4 = 49'
CL2 = 22'-10½"
TRUSS NO. C32T8F 59'-2" LONG
TRUSS NO. C32TIF 59'-2" LONG
2¼" ℄ HOLES
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
PANEL NO. DRIF SIZE 20' x 59'-2"
SEE DETAIL "B"
4'-8"
6'-8"
24T10
24T10A
24T10B
24T16
COVER PLATE PLACEMENT
SEE DETAIL "F"
4'-7½"
5'-6"
13'-4"
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
5'-0"
SEE DETAIL C
LOCATION OF HOLES
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK PP1
32" TRUSS
COVER PLATE
TOP VIEW - DETAIL "A"
ARC WELD W.T.C. 223.00
DETAIL "B1" WHEN APPLICABLE
ARC WELD W.T.C. 223.00
V3 OR V4
A2 OR A3
DETAIL "B" WHEN APPLICABLE
COVER PLATE B
COVER PLATE B
2" LAP
DETAIL "D"
DETAIL "E"
ARC WELD W.T.C. 223.00
PATCH PLATE PP1
FILLET W.T.C. 223.00
SECTION B-B
SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW - DETAIL "B"
COVER PLATES #29 GA. THICK
COVER PLATE C
END STIFFENER
COVER PLATE D
DETAIL "F"
END STIFFENERS W.T.C. 223.00
SECTION A-A
SECTION C-C
47-48, 70-71 (N)
11/7/68
OCT 31, 1968
221
FP DRIF

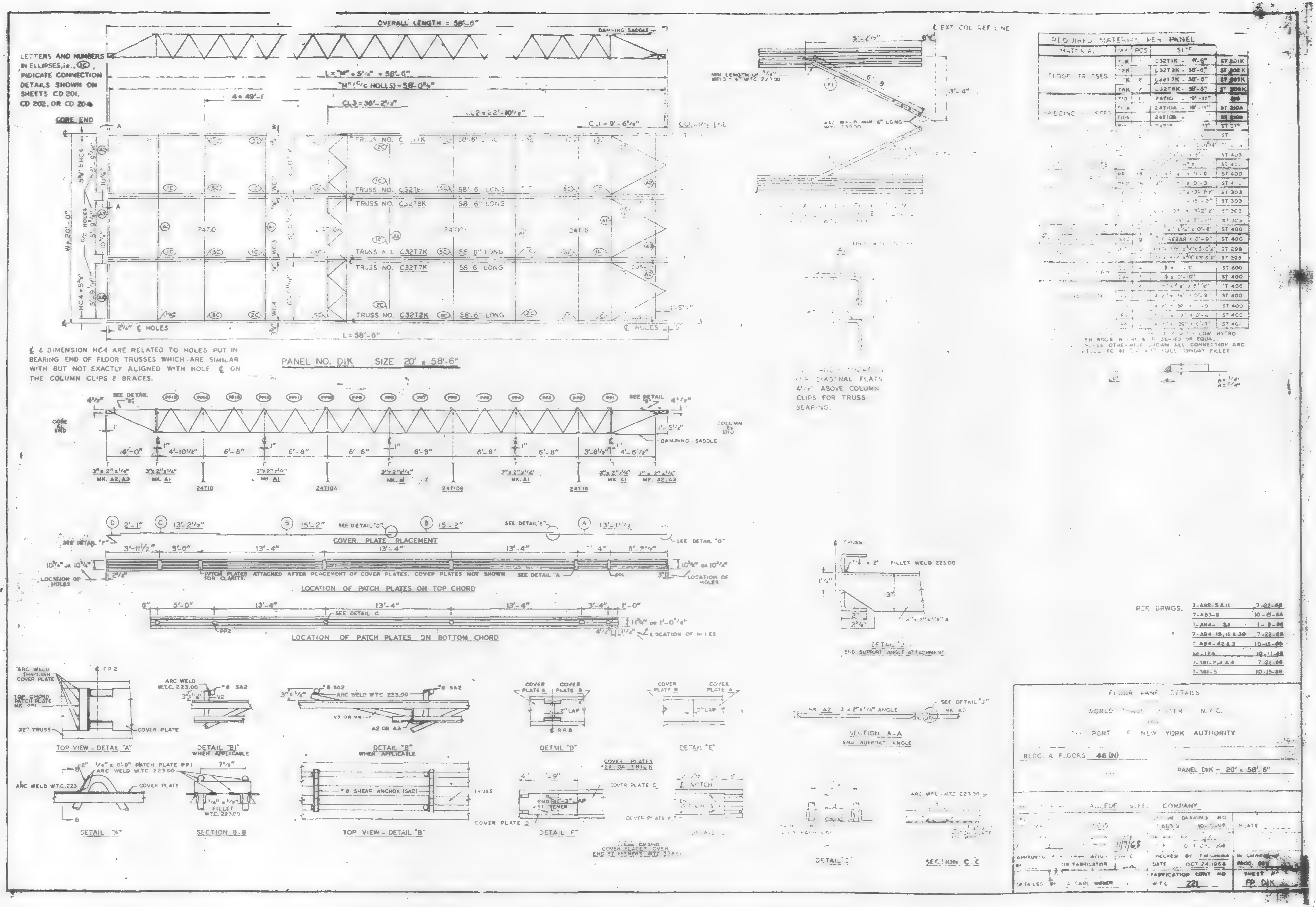


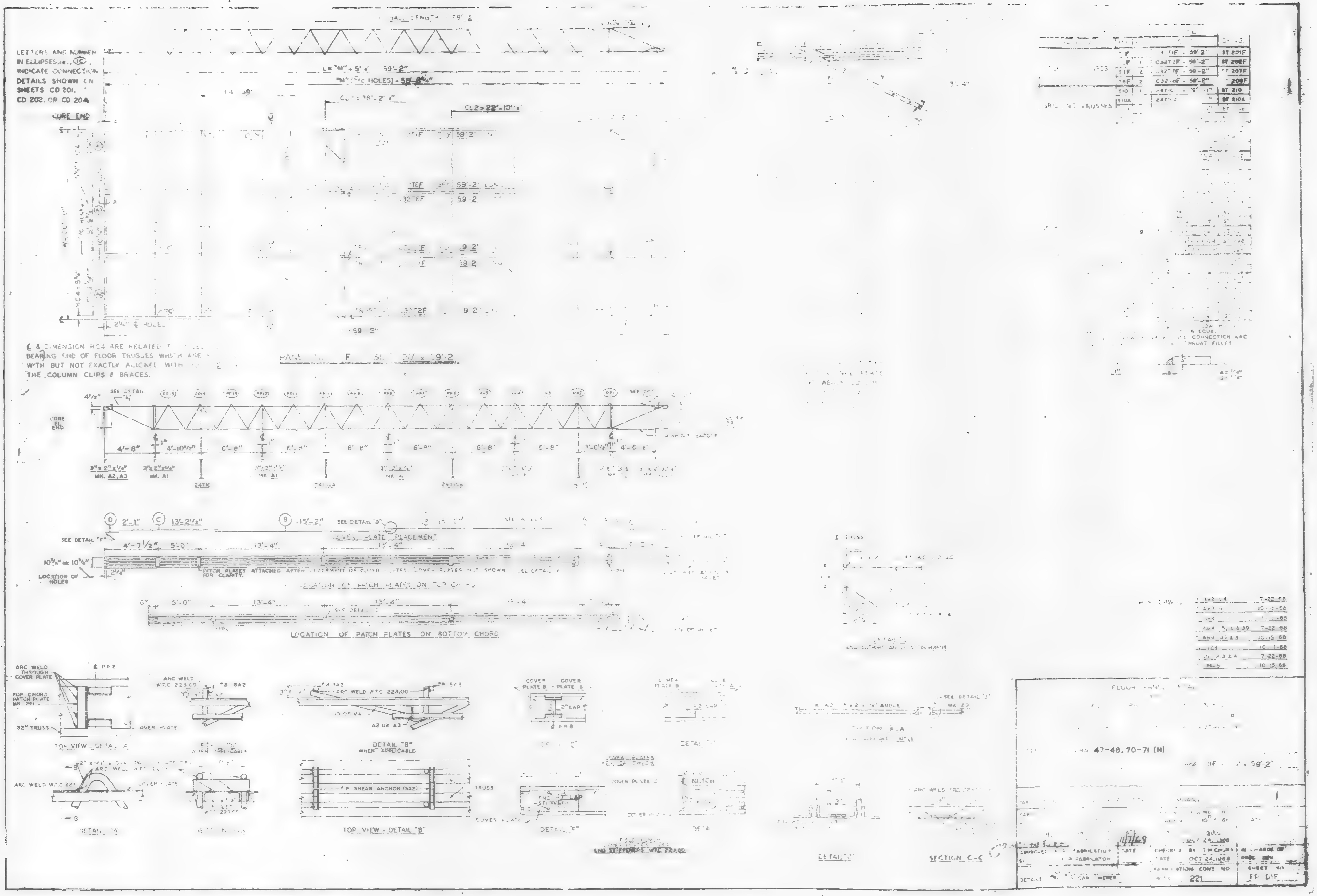
L = 58'-3"
2¼" ¢ HOLES
SEE DETAIL
4½"
3'-5"
4'-10⅞"
6'-8"
3"x 2" x ¼"
MK. A2, A3
MK. A1
24T10
24T10A
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "F"
COVER PLATE PLACEMENT
3'-4½"
LOCATION OF HOLES
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE
32" TRUSS
72-73 (N)
11/7/68
OCT 31, 1968
7-24-68
10-15-68


OVERALL LENGTH 4'-57'
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201, CD 202, OR CD 204.
CORE END
TRUSS NO. C32T1P
24T10
2 1/4" HOLES
L=57'-7"
HC4 & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE IN THE COLUMN CLIPS & BRACES.
PANEL NO. DRIP SIZE 20' x 57'-7"
SEE DETAIL "B"
COVER PLATE PLACEMENT
SEE DETAIL "F"
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
COVER PLATE
32" TRUSS
DETAIL "B" WHEN APPLICABLE
A2 OR A3
ARC WELD W.T.C. 223
FILLET W.T.C. 223
SECTION
SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW - DETAIL "B"
END STIFFENER
END OF TRUSS CUT (W.T.C. 223-00)
DETAIL "F"
74 (N)
James White 11/15/68
OCT 31 1968
LACLEDE STEEL CO.

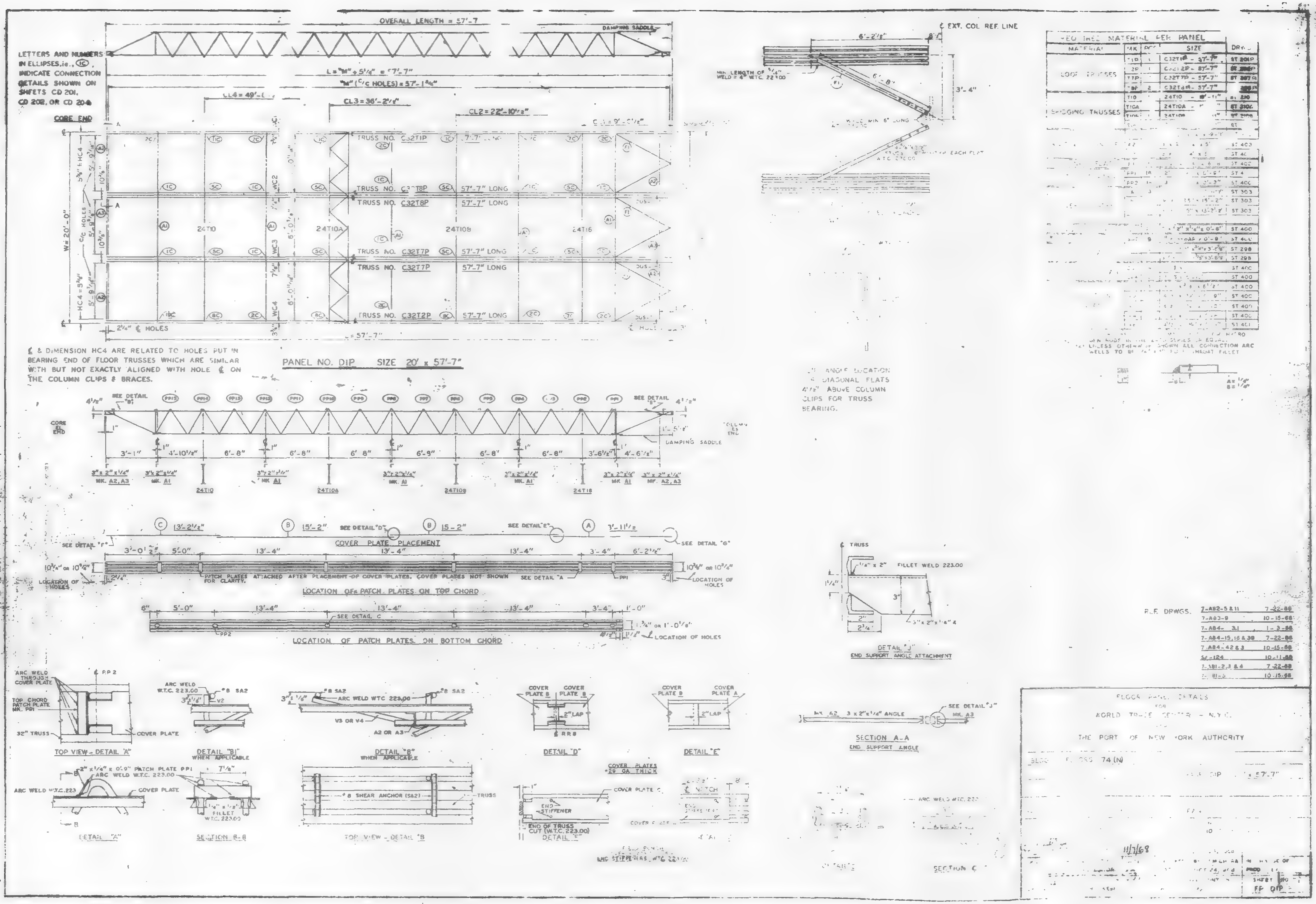

OVERALL LENGTH = 59'-8 1/2"
LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201, CD 202, OR CD 204
CORE END
CL4 = 46'-6"
CL3 = 36'-2 1/8"
CL2 = 22'-10"
TRUSS NO. C32T1B
TRUSS NO. C32T2B
TRUSS NO. C32T7B
24T10
W = 20'-0"
L = 59'-8 1/2"
2 1/4" ℄ HOLES
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
PANEL NO. D1B SIZE 20' x 59'-8 1/2"
REQUIRED MATERIAL PER PANEL
FLOOR TRUSSES
BRIDGING TRUSSES
CLIP ANGLE LOCATION FOR DIAGONAL PLATES 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
CORE END
DAMPING SADDLE
5'-2 1/2" 4'-10 1/2" 6'-8" 6'-8" 6'-8" 6'-9" 6'-8" 6'-8" 3'-6 1/2" 4'-6"
24T10 24T10A 24T10B 24T1B
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON BOTTOM CHORD
LOCATION OF HOLES
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
SECTION A-A END SUPPORT ANGLE
REF. DRWGS.
TOP VIEW - DETAIL "A"
DETAIL "B1" WHEN APPLICABLE
DETAIL "B" WHEN APPLICABLE
DETAIL "D"
DETAIL "E"
DETAIL "A"
SECTION B-B
TOP VIEW - DETAIL "B"
DETAIL "F"
DETAIL "C"
SECTION C-C
COVER PLATES #20 GA THICK
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
FLOOR PANEL DETAILS FOR WORLD TRADE CENTER - N.Y.C. FOR THE PORT OF NEW YORK AUTHORITY
BLDG. A FLOORS 84-91, 93-106 (N)
PANEL D1B - 20' x 59'-8 1/2"
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A63-9 10-15-68
CHECKED BY T.M.CHURA
DATE OCT 24, 1968
DETAILED BY A. CARL WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO. FP-D1B

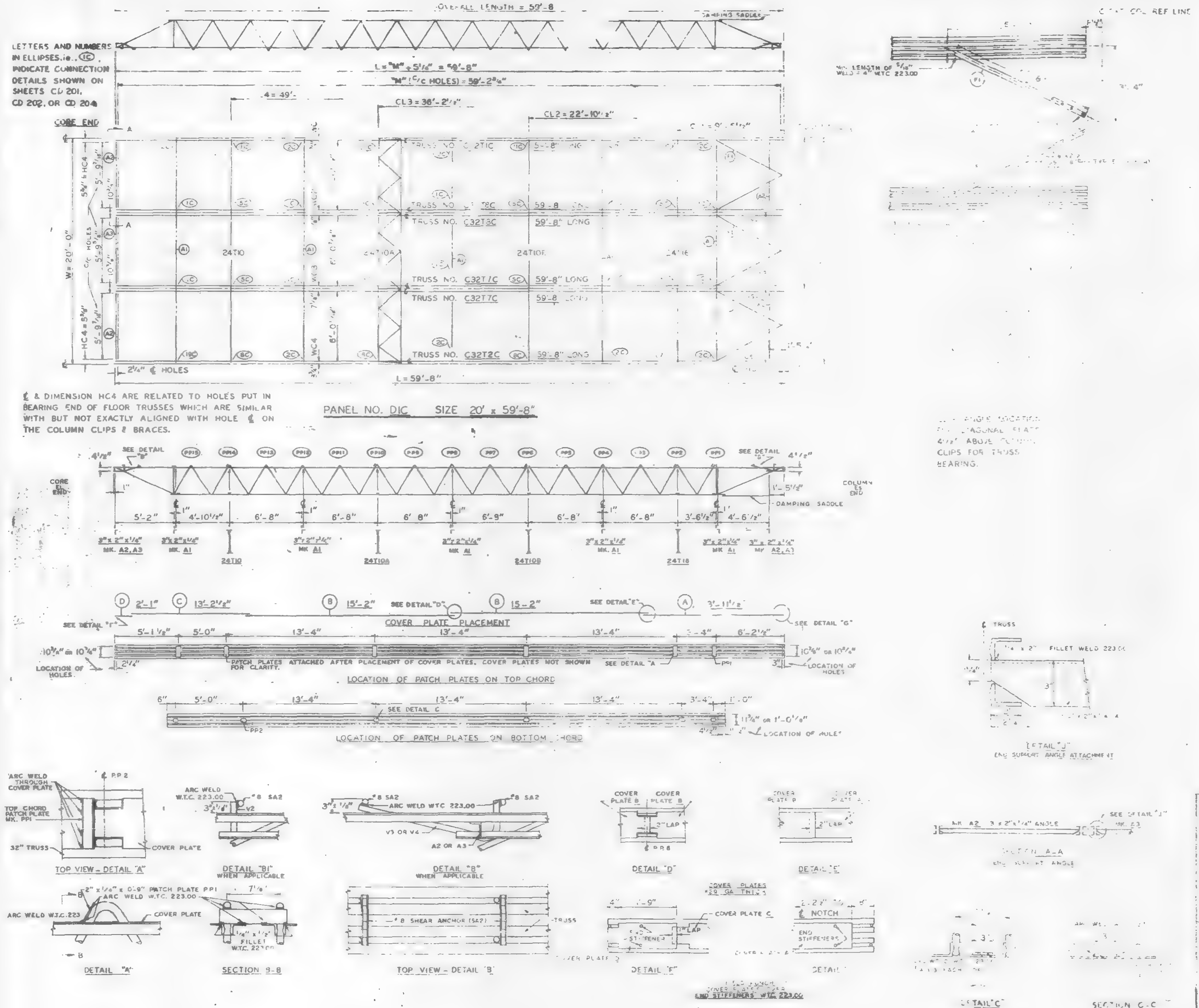

OVERALL LENGTH = 58'-11"
LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201, CD 202, OR CD 204
L = "M" + 5'-1/4" = 58'-11"
"M" (C/C HOLES) = 58'-5 3/4"
CL4 = 49'-6"
CL3 = 36'-2 1/8"
CL2 = 22'-10 1/8"
CORE END
TRUSS NO. C32T8G 58'-11" LONG
TRUSS NO. C32T7G 58'-11" LONG
TRUSS NO. C32T2G 58'-11" LONG
W = 20'-0"
2 1/4" ℄ HOLES
L = 58'-11"
℄ & DIMENSION HC4 ARE RELATED TO HOLES BUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
PANEL NO. DIG SIZE 20' x 58'-11"
DAMPING SADDLE
4'-5" 4'-10 1/2" 6'-8" 6'-8" 6'-8" 6'-9" 6'-8" 6'-8" 3'-6 1/2" 4'-6 1/2"
24T10 24T10A 24T10B 24T18
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "B1" WHEN APPLICABLE
DETAIL "B" WHEN APPLICABLE
DETAIL "A"
SECTION B-B
TOP VIEW - DETAIL "B"
DETAIL "E"
DETAIL "C"
SECTION C-C
SECTION A-A END SUPPORT ANGLE
ARC WELD W.T.C. 223.00
FILLET WELD 223.00
TOP CHORD PATCH PLATE MK. PP1
COVER PLATE
32" TRUSS
#8 SHEAR ANCHOR (SA2)
ELEV. ANGLE LOCATION FOR DIAGONAL PLATE 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
FLOOR PANEL DETAILS
WORLD TRADE CENTER N.Y.C.
THE PORT OF NEW YORK AUTHORITY
BLDG. FLOORS 39-40 (N&S)
PANEL DIG - 20' x 58'-11"
FABRICATION BY LACLEDE STEEL COMPANY
DESIGN DRAWING NO. 10-15-68
CHECKED BY: Z.M. CHURA
DATE OCT 24, 1968
APPROVED FOR FABRICATION FOR FABRICATOR
DETAILED BY A. CARL WEBER
FABRICATION CONT. NO. WTC 221
7-AB4-15,16 & 39 7-22-68
7-AB4-42 & 3 10-15-68
10-11-68
7-22-68
10-15-68


OVERALL LENGTH = 58'-6"
LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201, CD 202, OR CD 204
CORE END
L = "M" + 5 1/4" = 58'-6"
"M" (C/C HOLES) = 58'-0 3/4"
CL3 = 38'-2 1/8"
CL2 = 22'-10 7/8"
TRUSS NO. C32T1K 58'-6" LONG
TRUSS NO. C32T8K 58'-6" LONG
TRUSS NO. C32T7K 58'-6" LONG
TRUSS NO. C32T2K 58'-6" LONG
24T10
24T10A
24T10B
24T18
L = 58'-6"
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
PANEL NO. DIK SIZE 20' x 58'-6"
SEE DETAIL "B"
DAMPING SADDLE
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
TOP VIEW - DETAIL "A"
DETAIL "B1" WHEN APPLICABLE
DETAIL "B" WHEN APPLICABLE
DETAIL "D"
DETAIL "E"
DETAIL "A"
SECTION B-B
TOP VIEW - DETAIL "B"
DETAIL "F"
COVER PLATES 28 GA THICK
REQUIRED MATERIAL PER PANEL
DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
DETAIL "J" END SUPPORT ANGLE ATTACHMENT
SECTION A-A END SUPPORT ANGLE
SECTION C-C
REF. DRWGS.
7-AB2-5 & 11 7-22-68
7-AB3-8 10-15-68
7-AB4-15,16 & 39 7-22-68
7-AB4-42 & 3 10-15-68
SC-124 10-11-68
7-AB1-2,3 & 4 7-22-68
7-AB1-5 10-15-68
FLOOR PANEL DETAILS
WORLD TRADE CENTER N.Y.C.
PORT NEW YORK AUTHORITY
BLDG. A FLOORS 46 (N)
PANEL DIK - 20' x 58'-6"
COMPANY
11/7/68
DATE OCT 24,1968
FABRICATION CONT NO
W.T.C. 221
DETAILED BY CARL WEBER
FP DIK



LETTERS AND NUMBERS IN ELLIPSES i.e. (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201, CD 202, OR CD 204
CORE END
CL2 = 22'-10½"
SEE DETAIL "F"
LOCATION OF HOLES
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
32" TRUSS
COVER PLATE
TOP VIEW - DETAIL "A"
DETAIL "B" WHEN APPLICABLE
ARC WELD W.T.C. 223.00
A2 OR A3
TOP VIEW - DETAIL "B"
SHEAR ANCHOR (SA2)
TRUSS
DETAIL "A"
DETAIL "F"
SECTION C-C
47-48, 70-71 (N)
59'-2"
OCT 24, 1968
221


OVERALL LENGTH = 57'-7
DAMPING SADDLE
LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201, CD 202, OR CD 204
CORE END
TRUSS NO. C32T1P
TRUSS NO. C32T8P
57'-7" LONG
TRUSS NO. C32T7P
TRUSS NO. C32T2P
24T10
24T10A
24T10B
24T16
2 1/4" ℄ HOLES
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
PANEL NO. DIP SIZE 20' x 57'-7"
SEE DETAIL "B"
CORE ℄ END
COLUMN ℄ END
DAMPING SADDLE
COVER PLATE PLACEMENT
SEE DETAIL "D"
SEE DETAIL "E"
SEE DETAIL "F"
SEE DETAIL "G"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
LOCATION OF HOLES
TOP VIEW - DETAIL "A"
DETAIL "B1" WHEN APPLICABLE
DETAIL "B" WHEN APPLICABLE
DETAIL "D"
DETAIL "E"
DETAIL "A"
SECTION B-B
TOP VIEW - DETAIL "B"
COVER PLATES #29 GA. THICK
EXT. COL REF. LINE
FILLET WELD 223.00
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
SECTION A-A
END SUPPORT ANGLE
REQUIRED MATERIAL FOR PANEL
LOOP TRUSSES
BRIDGING TRUSSES
REF. DRWGS.
7-AB2-5 & 11 7-22-68
7-AB3-9 10-15-68
7-AB4-3.1 1-3-68
7-AB4-15,16 & 30 7-22-68
7-AB4-42 & 3 10-15-68
7-AB1-2,3 & 4 7-22-68
FLOOR PANEL DETAILS
WORLD TRADE CENTER - N.Y.C.
THE PORT OF NEW YORK AUTHORITY
FLOORS 74 (N)
11/7/68
FF DIP



REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	DR.
FLOOR TRUSSES	T1C	1	C32T1C - 59'-8"	ST 201C
	[illegible]C	1	C32T2C - 59'-8"	ST 202C
	T7C	2	C32T7C - 59'-8"	ST 207C
	T8C	2	C32T8C - 59'-8"	[illegible] 208C
BRIDGING TRUSSES	T10	1	24T10 - [illegible]-11"	[illegible] 210
	T10A		24T10A [illegible] "	ST 210A
	T10B	1	24T10B [illegible] 11"	ST 210B
	[illegible]		[illegible]	ST
[illegible]			[illegible] x 2" x [illegible] x 16-11"	[illegible]
[illegible]	A2		[illegible] x 5'-	ST 403
			[illegible]	ST 40[illegible]
[illegible]		5	[illegible] x 8'-8	ST 40[illegible]
[illegible]	PP1	18	2" [illegible]	ST 4[illegible]
	PP2	16	[illegible] x 0'-3"	ST 400
[illegible]	A	3	[illegible]	ST 303
	B		9' x [illegible] x 15'-2"	ST 303
	C	3	9' x [illegible] x 13'-2 1/2"	ST 303
	[illegible]	3	9' x 0.135" x 2'-1"	ST 303
[illegible]	[illegible]	24	2' x 1/2" x 1/4" x 0'-6'	ST 400
[illegible]	SA2	2	#8 REBAR x 0'-9"	ST 400
[illegible]		2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	[illegible]S 2		3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
[illegible]	CS[illegible]	4	1" Φ x [illegible] - 3"	ST 400
	CS4	6	1" Φ x 0'-[illegible]"	ST 400
[illegible]	[illegible]	4	3' 2" x 3/8" x 8 1/2"	ST 400
[illegible]	P2	1	4 1/2" x 39" x 0'-9"	ST 400
PLATE	P3	1	4' 2" x 39" x 1'-0"	ST 400
	P4	3	6 1/2" x 1/2" x 0'-8"	ST 400
	P6	1	4 1/2" x .30" x 0'-9"	ST 401

NOTES: (1) [illegible] ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE 1/4" x 1" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

F. F. DRWGS.

7-AB2-5 & 11	7-22-68
[illegible]-AB3-9	10-15-68
7-AB4-3.1	1-3-68
7-AB4-15, 6 & 39	7-22-68
7-AB4-42 & 3	10-15-68
S[illegible]-124	10-11-68
[illegible]-B-2,3 & 4	7-22-68
[illegible]-B[illegible]-5	10-15-68

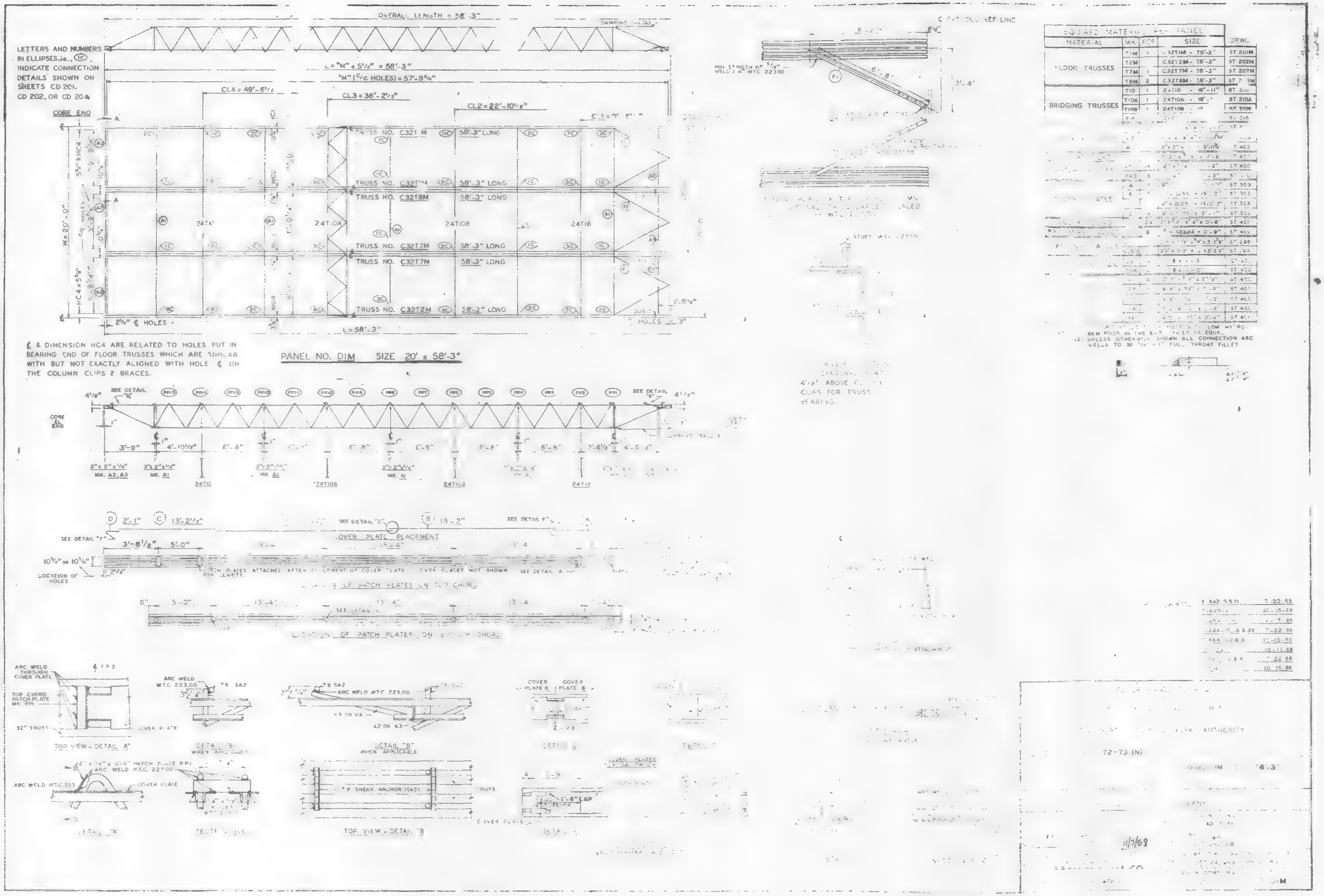
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

[illegible] 50-58, 60-66, 68-74, 79-91 & 93-106 (S)

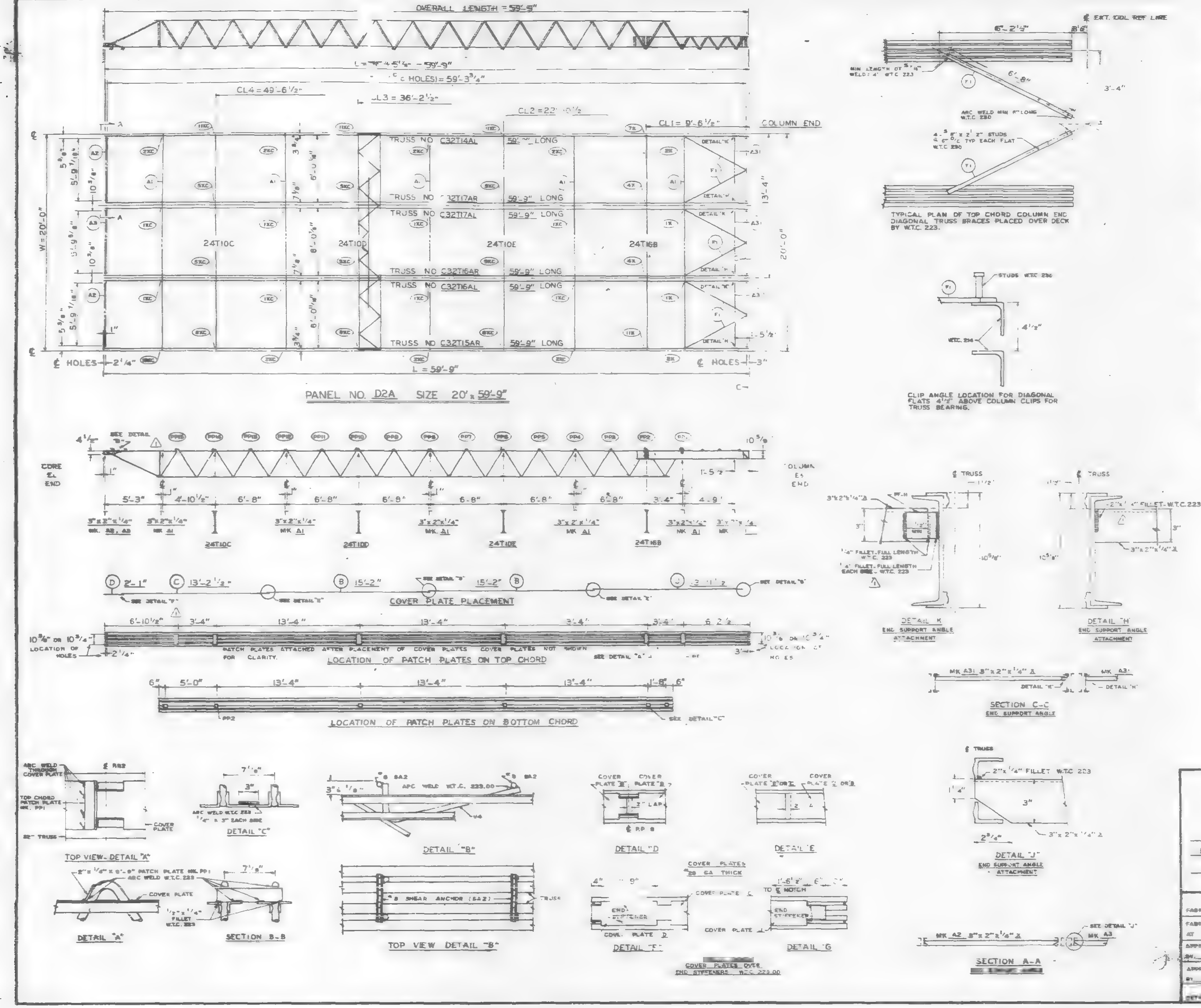
PANEL D1C - [illegible] x 59'-8"

[illegible] COMPANY

[illegible]	DATE 11/7/68	[illegible] DRAWING NO [illegible] 10-[illegible]-68 / [illegible] BY AS / DATE [illegible] 24 [illegible] 68	[illegible]
[illegible] FOR FABRICATION / FOR FABRICATION	DATE	CHECKED BY F M CHURA / DATE OCT 24, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A. CARL WEBER		FABRICATION CONT. NO W.T.C. 221	SHEET NO FP D1C

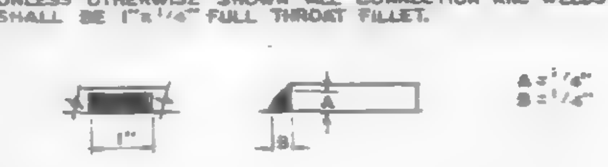


OVERALL LENGTH = 58'-3"
LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201, CD 202, OR CD 204
L = "M" + 5 1/4" = 58'-3"
"M" (C/C HOLES) = 57'-9 3/4"
CL4 = 49'-6 1/2"
CL3 = 36'-2 1/2"
CL2 = 22'-10 1/2"
CORE END
TRUSS NO. C32T1M 58'-3" LONG
TRUSS NO. C32T8M 58'-3" LONG
TRUSS NO. C32T7M 58'-3" LONG
TRUSS NO. C32T2M 58'-3" LONG
24T10
24T10A
24T10B
24T16
W = 20'-0"
2 1/4" ℄ HOLES
L = 58'-3"
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
PANEL NO. DIM SIZE 20' x 58'-3"
SEE DETAIL "B"
3'-9"
4'-10 1/2"
6'-8"
3" x 2" x 1/4" MK. A2, A3
3" x 2" x 1/4" MK. A1
COVER PLATE PLACEMENT
SEE DETAIL "F"
3'-8 1/2"
5'-0"
LOCATION OF HOLES
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP1
32" TRUSS
COVER PLATE
TOP VIEW - DETAIL "A"
ARC WELD W.T.C. 223.00
#8 SA2
DETAIL "B" WHEN APPLICABLE
#8 SHEAR ANCHOR (SA2)
TOP VIEW - DETAIL "B"
COVER PLATE B
1'-6" LAP
REQUIRED MATERIAL PER PANEL
MATERIAL
SIZE
DRWG
FLOOR TRUSSES
BRIDGING TRUSSES
C32T1M - 58'-3"
C32T2M - 58'-3"
C32T7M - 58'-3"
C32T8M - 58'-3"
ST 201M
ST 202M
ST 207M
24T10
24T10A
24T10B
REBAR
72-73 (N)
PORT OF NEW YORK AUTHORITY
11/7/68



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	T14AL	4	C32T14AL x 59'-9"	ST 214AL
	T15AR	4	C32T15AR x 59'-9"	ST [illegible]AL
	T16AL	1	C32T16AL x 59'-9"	[illegible]6AL
	T16AR	1	C32T16AR x 59'-9"	
	T17AL	1	C32T17AL x 59'-9"	ST 217AL
	T17AR	1	C32T17AR x [illegible]	
BRIDGING TRUSSES	T10C	1	24T10C [illegible]	ST 210C
	T10D	1	24T[illegible] x 19'-11"	ST 210[illegible]
	T10E	1	24T10E x 19-11"	ST 210E
	T16B		24T[illegible]6B x 19'-11"	ST 216B
3" x 2" x 1/4" ANGLE	A1	5	3"x2"x1/4"x19'-[illegible]	ST 403
	A2	2	3"x2"x1/4"x5'-[illegible]	ST 403
	A3	1	3"x2"x1/4"x5'-[illegible]3/4"	ST 403
	A31	3	3"x[illegible]4"x5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3'[illegible]/4" x 0'-2 3/8"	ST 412
DIAGONAL FLATS	F	6	1 1/2" x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	10	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	C	3	9" x .0135" x 13'-2 1/2"	ST 303
	D	3	9" x .0135" x 2'-1"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
ANGLE CLIPS	C1	24	2" x 1 1/2" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-8"	ST 400
CONNECTION BAR	CB1	5	1" Ø x 1'-3"	ST 400
	CB4	8	1" Ø x 0'-10"	ST 400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	1	4 1/2" x .39" x 0'-8"	ST 400
	P4	3	6 1/2" x 1/2" x 0'-8"	ST 400
	P8	1	4 1/2" x .39" x 0'-8"	ST 401
	P9	6	3" x 1/2" x 1'-2"	ST 408

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie.. (1X)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.



NC	DATE	REVISION	BY
1	2-4-69	AS NOTED	BDC

REF. DRWG.

7-AB3-30	10-4-68
7-AB4-28	7-22-68
7-AB1-13	10-4-68
7-AB1-14, 15 & 16	10-4-68
7-AB2-13	10-4-68
7-AB2-17	10-4-68
SA-124	10-11-68

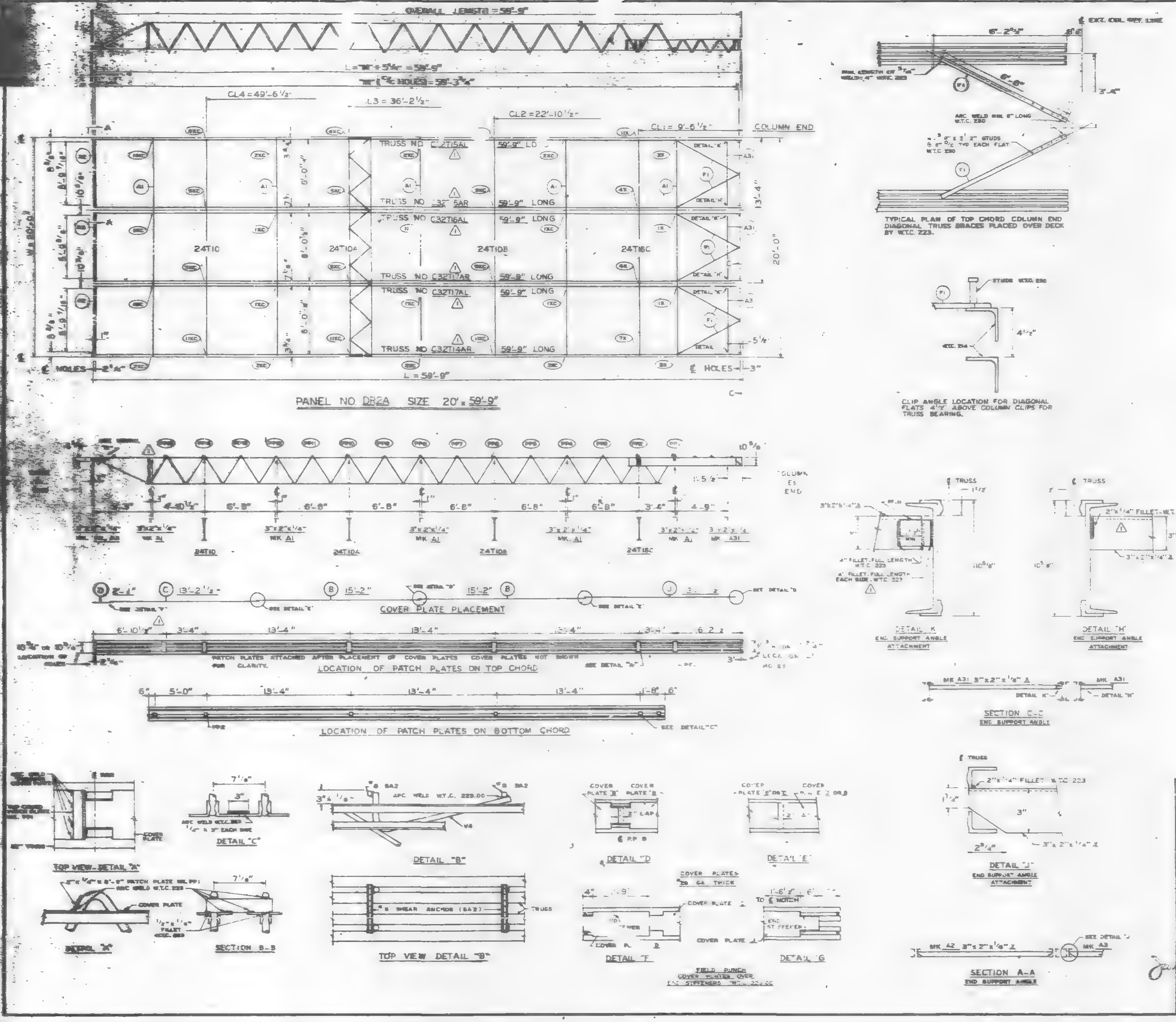
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)

PANEL D2A - 20' x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3-30	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.	DATE 2/28/69	DRAWN BY [illegible] DATE DEC. 5, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHUBB DATE DEC. 5, 1968	IN CHARGE OF [illegible]
		FABRICATION CONT NO W.T.C. 221	SHEET NO FP D2A



REQUIRED MATERIAL PER PANEL				REF.
MATERIAL	MK.	PCS.	SIZE	DRWG.
FLOOR TRUSSES	[illegible]	[illegible]	[illegible]	[illegible]
BRIDGING TRUSSES	T10	1	24T10 x 19'-11"	ST 210C
	T10A	1	24T10A x 19'-11"	ST 2100
	T10B	1	24T10B x 19'-11"	ST 21[illegible]
	T10C	1	[illegible] x 19'-11"	ST [illegible]
3" x 2" x 1/4" ANGLE	A1	5	3"x2"x1/4"x19'-11"	ST 403
	A2	2	3"x2"x1/4"x5'-11 9/16"	ST 403
	A3	1	3"x2"x1/4"x[illegible]	ST 403
	A31	3	3"x2"x1/4"x[illegible]	ST 410
CLOSURE PLATES	PF-11	3	3"x1/4"x0'-2 3/4"	ST 412
DIAGONAL FLATS	F1	6	1 1/2"x5/8"x6'-8"	ST 402
PATCH PLATES	PP1	18	2"x1/4"x0'-8"	ST 400
	PP2	18	3"x3/8"x0'-[illegible]"	ST 400
COVER PLATES	B	6	9"x.0135"x15'-2"	ST 303
	C	3	9"x.0135"x13'-2 1/2"	ST 303
	D	3	9"x.0135"x2'-1"	ST 303
	J	3	9"x.0135"x[illegible]	ST 304
ANGLE CLIPS	C1	24	2"x1 1/2"x.25"x6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	3	1" ϕ x 1'-3"	ST 400
	CB4	8	1" ϕ x 0'-10"	ST 400
CONNECTION PLATES	P1	3	3 1/2"x3/8"x0'-5 1/2"	ST 400
	P2	1	4 1/2"x.38"x0'-8"	ST 400
	P4	3	6 1/2"x1/2"x0'-8"	ST 400
	P8	1	4 1/2"x.38"x0'-2"	ST 401
	P9	6	3"x1/2"x1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS.
ALL CONNECTION DETAILS FOR FLOORS 25, 58 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	
1	2-4-69	AS NOTED	

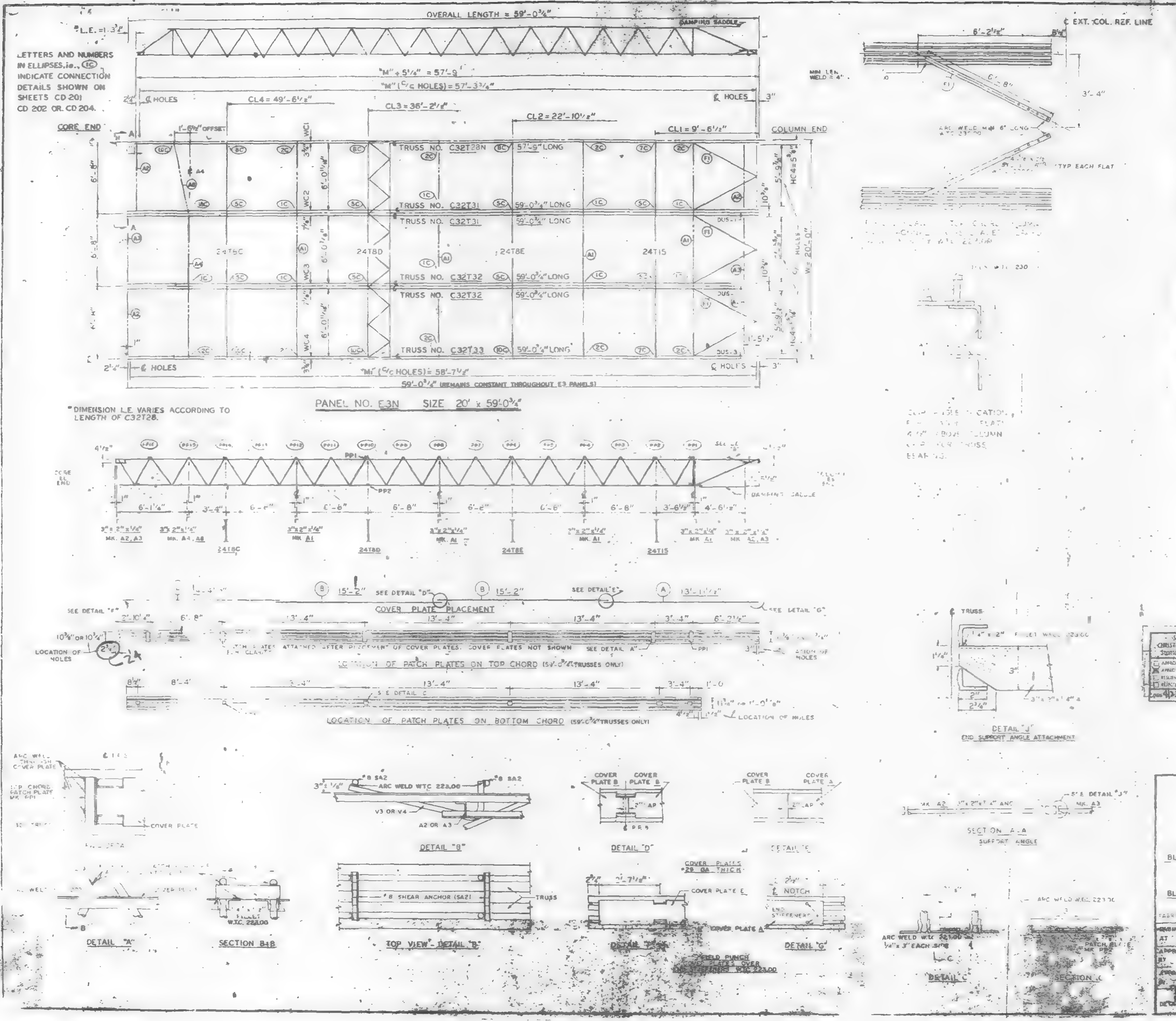
REF. DRWG.

7-AB3-31	10-4-68
7-AB4-29	7-[illegible]
7-AB1-13	10-4-68
7-AB1-14, 15 & 16	10-4-68
7-AB2-13	10-4-68
7-AB2-17	[illegible]
SA-126	10-11-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)
PANEL DR2A - 20' x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-31
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 2/28/69
DRAWN BY [illegible] DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY [illegible] DATE DEC. 5, 1968
DETAILED BY [illegible]
FABRICATION CONT. NO W.T.C. 221
SHEET NO FD DR2A



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T28N	[illegible]	C32T28N - 57'-9"	ST 228N
	T31	2	C32T31 - 59'-0¾"	ST 231
	T32	2	C32T32 - 59'-0¾"	ST 232
	T33	1	C32T33 - 59'-0¾"	ST 233
BRIDGING TRUSSES	T8C	1	24T8C - 19'-11"	ST 208C
	T8D	1	24T8D - 19'-11"	ST 208D
	T8E	1	24T8E - 19'-11"	ST 208E
	T15	1	24T15 - 19'-11"	ST 215
3" x 2" x ¼" ANGLE	A1	4	3" x 2" x ¼" x 19'-1"	ST 403
	A2	4	3" x 2" x ¼" x 5'-1[illegible]"	ST 403
	A3	2	3" x 2" x ¼" x 5'-1[illegible]"	ST 403
	A4	1	3" x 2" x ¼" x 13'-3"	ST 403
	A8	1	3" x 2" x ¼" x 6'-[illegible]"	ST 405
DIAGONAL FLATS	F1	6	[illegible]	[illegible]
COVER PLATES	A	3	9" x .0135" x 13'-11½"	ST 303
	B	6	9" x .0135" x 15'-2"	ST 303
	E	3	9" x .0135" x 14'-[illegible]"	ST 303
ANGLE CLIPS	C1	[illegible]	2" x 1½" x ¼" x 0'-8"	ST 40[illegible]
	C2	4	[illegible]	[illegible]
[illegible] SADDLE	[illegible]	2	[illegible]	ST 298
	[illegible]		[illegible]	ST 299
CONNECTION BAR	[illegible]	[illegible]	[illegible]	[illegible]
	CB2	[illegible]	[illegible]	ST 400
	[illegible]	6	[illegible]	[illegible]
CONNECTION PLATES	[illegible]	5	[illegible]	[illegible]
	P2	1	[illegible]	ST 400
	P3	1	[illegible]	[illegible]
	P5	[illegible]	[illegible]	400
	P6	1	[illegible]	ST 401
8 SHEAR ANCHOR	SA2	[illegible]	[illegible]	[illegible]
PATCH PLATES	PP1	18	[illegible]	ST 400
	PP2	18	[illegible]	ST 400

(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.

(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE ¼" x 1" FULL THROAT FILLET.

NO.	DATE	REVISION	BY

REF. DRWGS.

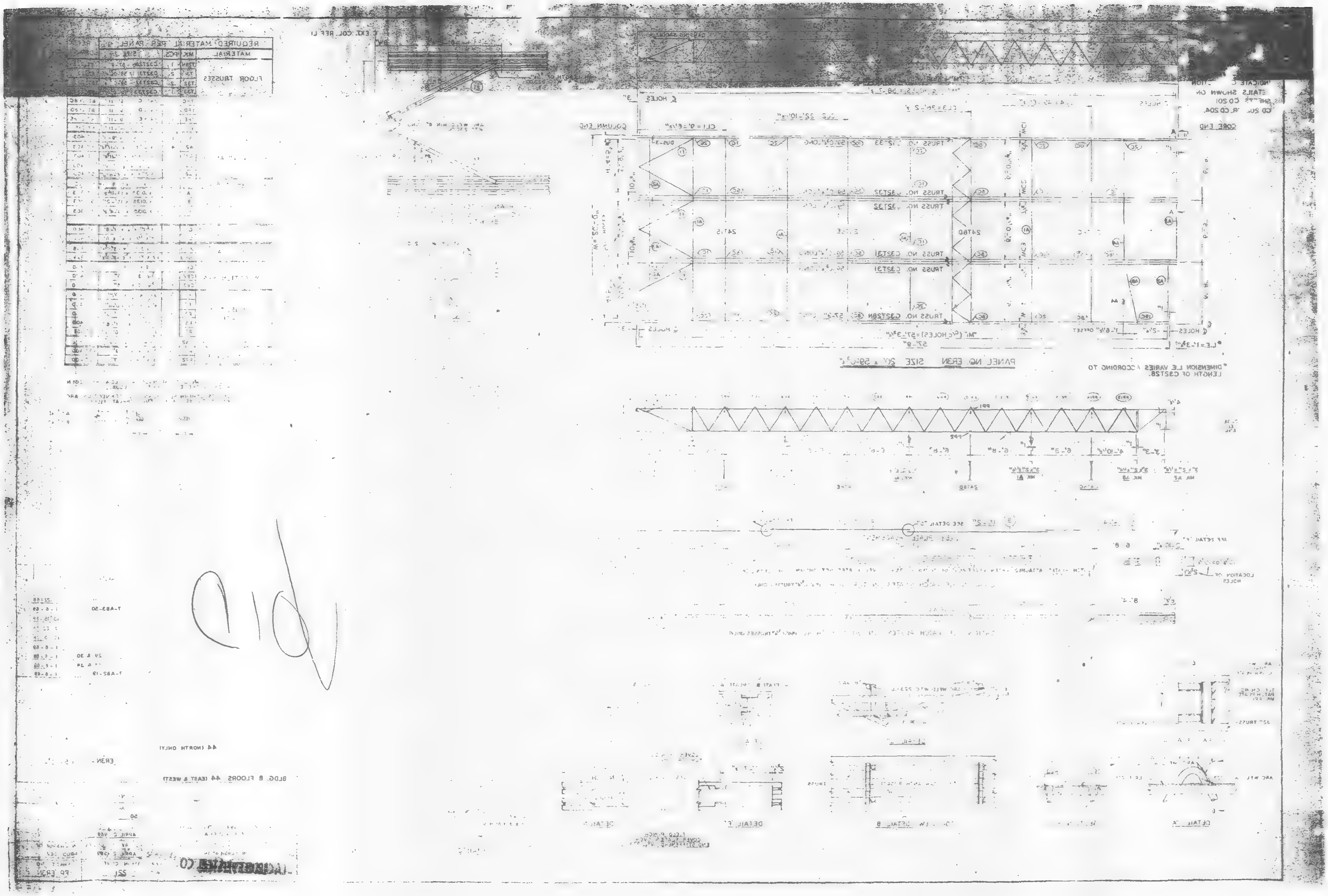
7-A[illegible]	7-22-68
7-AB5-49	1-6-69
7-AB4-[illegible]	10-15-68
7-AB4-[illegible]	7-22-68
7-AB4-42	10-15-68
SA-124	1-6-69
7-AB1-25 & 28	1-6-69
7-AB1-29 & 30	1-5-69
7-AB2-19	1-6-69

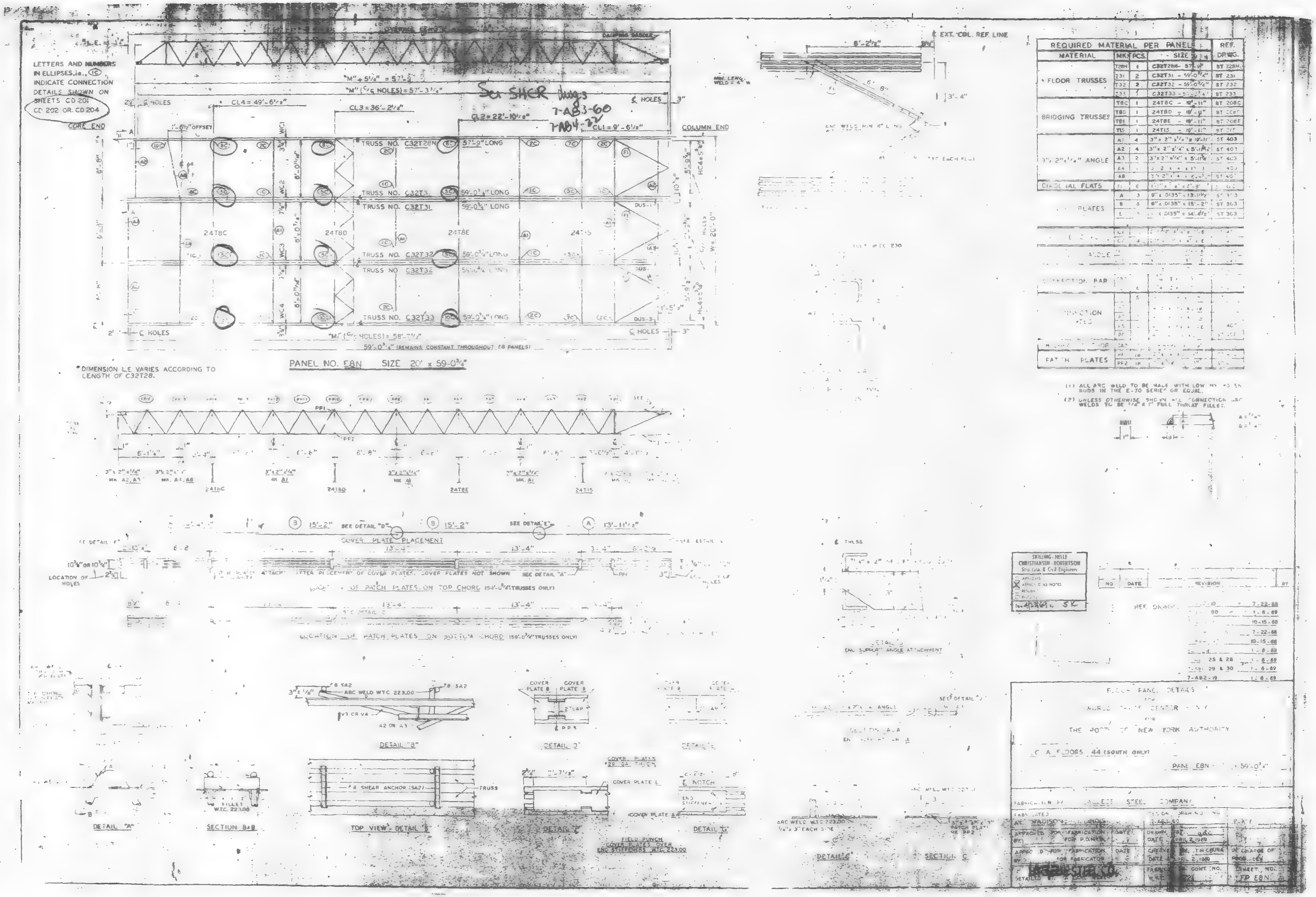
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

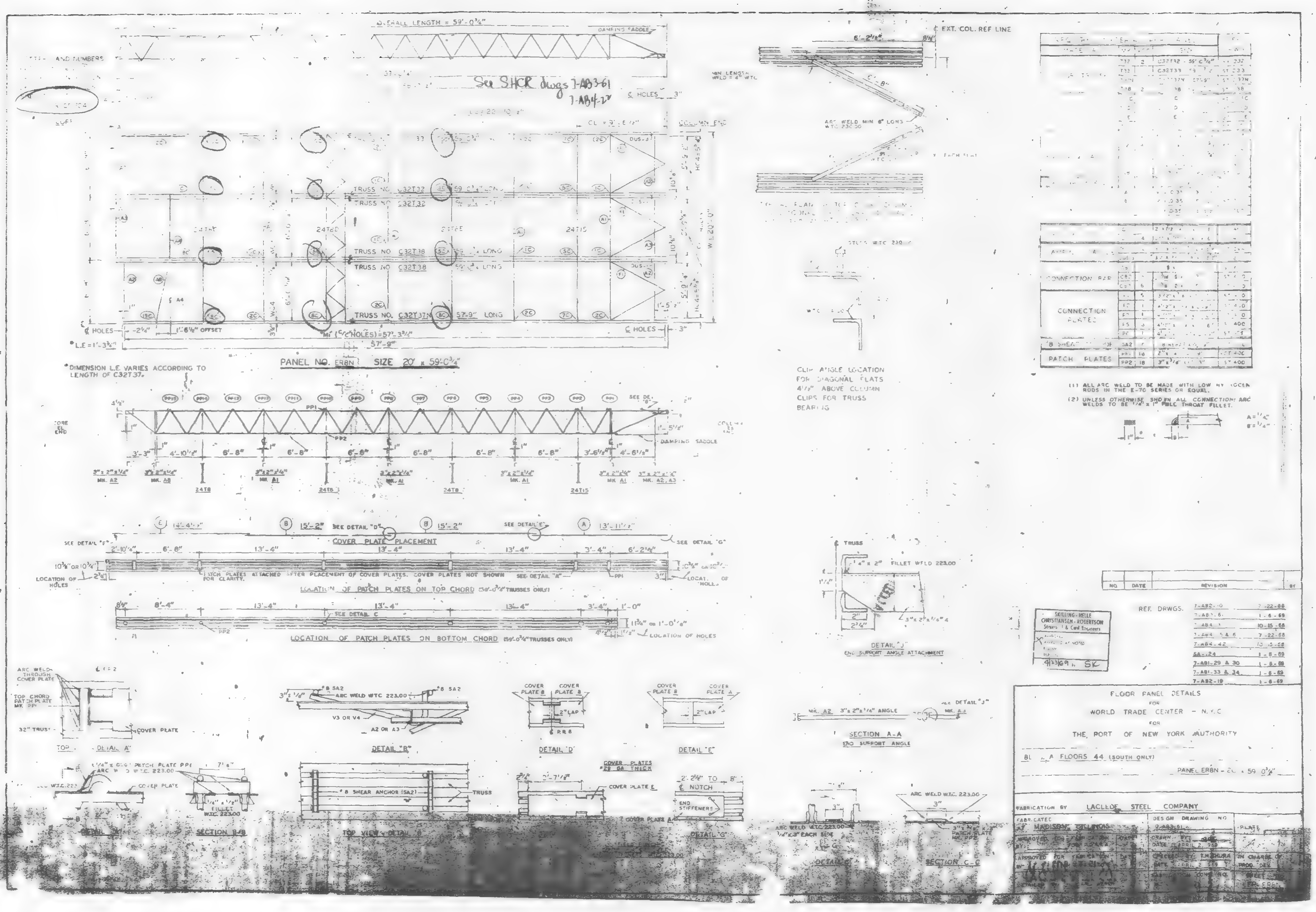
BLDG. A FLOORS 44 (NORTH ONLY) — EAST
PANEL E3N - 20' x 59'-0¾"
BLDG. B FLOORS 44 (WEST ONLY)

FABRICATION BY ACCESS STEEL COMPANY

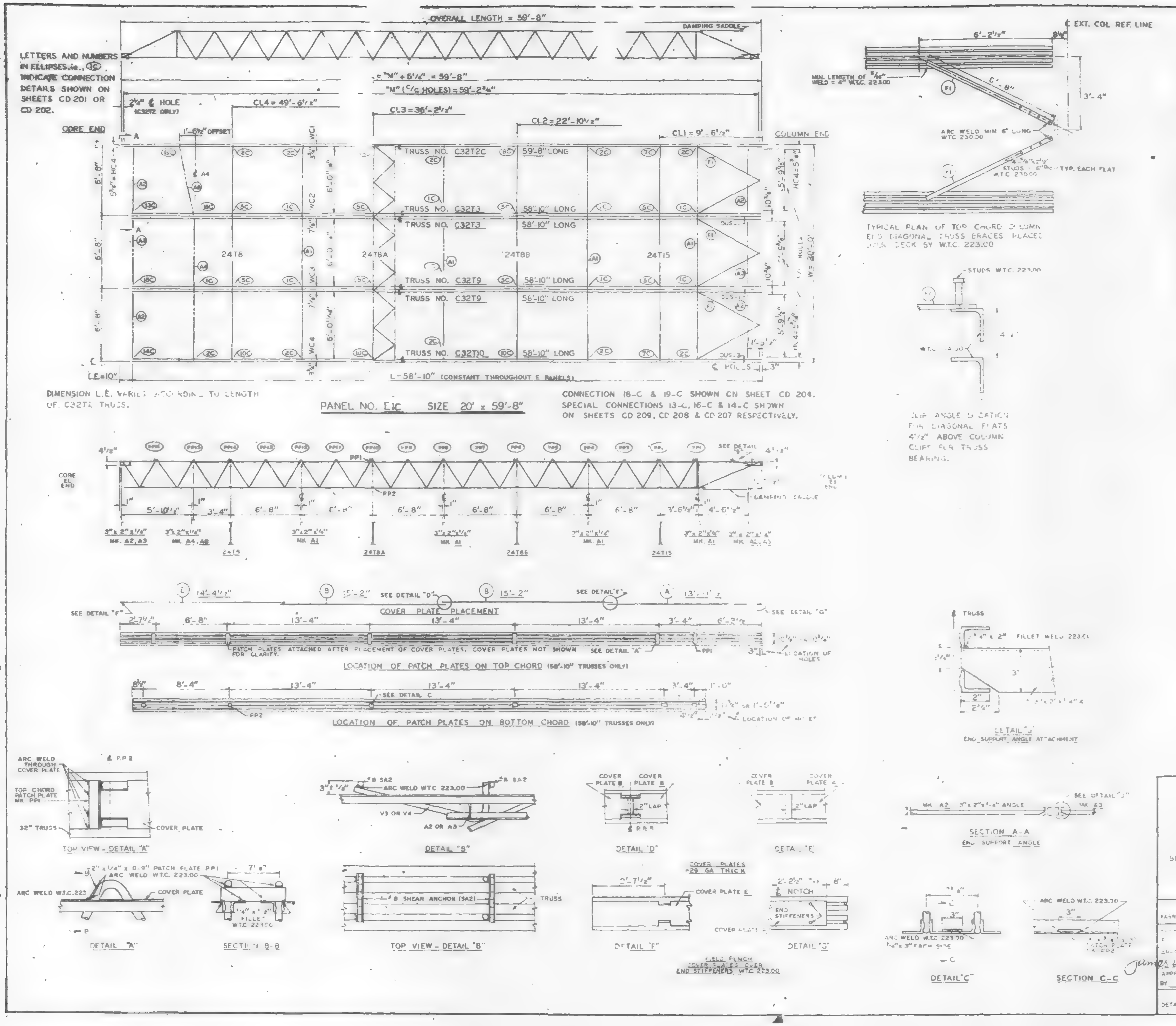
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING 7 AB5 49	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE	DRAWN BY [illegible] DATE APRIL 2, 1969	
APPROVED FOR FABRICATION BY THE FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE APRIL 2, 1969	IN CHARGE OF PROD. DEV.
[illegible]		FABRICATION CONT. NO. W.T.C. [illegible]	SHEET NO. FP E3N


REQUIRED MATERIAL PER PANEL
FLOOR TRUSSES
COLUMN END
CORE END
TRUSS NO. C32733
TRUSS NO. C32732
TRUSS NO. C32731
TRUSS NO. C32728N
PANEL NO. ER3N SIZE 20' x 59'-0 3/4"
*DIMENSION LE VARIES ACCORDING TO LENGTH OF C32728.
DETAIL A
DETAIL B
BLDG. B FLOORS 44 (EAST & WEST)
44 (NORTH ONLY)


LETTERS AND NUMBERS IN ELLIPSES, i.e., (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 CD 202 OR CD 204
CORE END
COLUMN END
EXT. COL. REF. LINE
See SHCR dwgs 7-AB3-60 7-AB4-32
TRUSS NO. C32T28N 57'-9" LONG
TRUSS NO. C32T31 59'-0¾" LONG
TRUSS NO. C32T32 59'-0¾" LONG
TRUSS NO. C32T33 59'-0¾" LONG
59'-0¾" (REMAINS CONSTANT THROUGHOUT E8 PANELS)
*DIMENSION L.E. VARIES ACCORDING TO LENGTH OF C32T28.
PANEL NO. E8N SIZE 20' x 59-0¾"
REQUIRED MATERIAL PER PANEL
MATERIAL
FLOOR TRUSSES
BRIDGING TRUSSES
3" x 2" x ¼" ANGLE
DIAGONAL FLATS
PLATES
PATCH PLATES
(1) ALL ARC WELD TO BE MADE WITH LOW HY RODS IN THE E-70 SERIES OR EQUAL.
(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE ¼" FULL THROAT FILLET.
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD (59'-0¾" TRUSSES ONLY)
DETAIL "A"
SECTION B-B
TOP VIEW - DETAIL "F"
DETAIL "B"
DETAIL "D"
DETAIL "E"
DETAIL "G"
SECTION A-A
SECTION C
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
SKILLING · HELLE CHRISTIANSEN · ROBERTSON Structural & Civil Engineers
NO. DATE REVISION BY
REF. DWGS.
FLOOR PANEL DETAILS FOR WORLD TRADE CENTER N.Y. FOR THE PORT OF NEW YORK AUTHORITY
FLOORS 44 (SOUTH ONLY)
PANEL E8N
FABRICATION BY LACLEDE STEEL COMPANY
APPROVED FOR FABRICATION
DRAWN
CHECKED
DATE APRIL 2, 1969
SHEET NO. FP E8N



OVERALL LENGTH = 59'-0 3/4"
DAMPING SADDLE
See SHCR dwgs 7-AB3-61
7-AB4-27
EXT. COL. REF LINE
TRUSS NO. C32T32
TRUSS NO. C32T32
TRUSS NO. C32T38
TRUSS NO. C32T38
TRUSS NO. C32T37N
57'-9" LONG
PANEL NO. ER8N SIZE 20' x 59'-0 3/4"
*DIMENSION L.E. VARIES ACCORDING TO LENGTH OF C32T37.
ARC WELD MIN 6" LONG
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
CONNECTION BAR
CONNECTION PLATES
PATCH PLATES
(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE 1/4" x 1" FILLET THROAT FILLET.
DAMPING SADDLE
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
REF. DRWGS.
SKILLING · HELLE CHRISTIANSEN · ROBERTSON
DETAIL "A"
DETAIL "B"
DETAIL "D"
DETAIL "E"
SECTION A-A
END SUPPORT ANGLE
SECTION B-B
TOP VIEW - DETAIL "B"
DETAIL "G"
SECTION C-C
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
FLOORS 44 (SOUTH ONLY)
PANEL ER8N - 20' x 59' 0 3/4"
FABRICATION BY LACLEDE STEEL COMPANY



REQUIRED MATERIAL PER PANEL				REF. DWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T2C	1	C32T2C - 59'-8"	ST 202C
	T3	2	C32T3 - 58'-10"	ST 203
	T9	2	C32T9 - 58'-10"	ST 209
	T10	1	C32T10 - 58'-10"	ST 210
BRIDGING TRUSSES	T8	1	24T8 - 19'-11"	ST [illegible]
	T8A	1	24T8A - 19'-11"	[illegible]
	T8B	1	24T8B - 19'-[illegible]	[illegible]
	T15	1	24T15 - [illegible] 11"	ST [illegible]
3"x 2"x 1/4" ANGLE	A1	4	3" x 2 [illegible] x 19-1'	ST 403
	A2	4	3" x [illegible] 1/4" x 5'-[illegible]	ST 40[illegible]
	A3	2	3" x 2" x 1/4" x 5'-[illegible]	ST 403
	A4		[illegible] x 2 [illegible] x 1/4" x [illegible]	ST 40[illegible]
	A8		3" x 2" x 1/4" x [illegible]	ST 405
DIAGONAL FLATS	[illegible]	6	1 1/2" x 5/8" x 6'	ST 402
COVER PLATES	A	3	9" x .0135" x 13'-11 1/2"	ST 303
	B	8	9" x [illegible]35" x 15'-2"	ST 303
	E	3	9" x .0135" x 14'-4 1/2"	ST 303
[illegible]	C1	2[illegible]	2" x 1/2" x 1/4" x 0'-8"	ST 400
	C2	4	2 1/2" x [illegible]/2" x 1/4" x 6"	ST 400
DAMPING SADDLE	DLS-[illegible]	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	S[illegible]	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB[illegible]	1	[illegible] Ø x [illegible]-3"	ST 400
	CB2	[illegible]	3/4" Ø x [illegible]-3"	ST 400
	CB[illegible]	6	1 5/8" Ø x 1'-5"	ST 400
CONNECTION PLATES	[illegible]	5	3 1/2" x 3/8" x [illegible]	ST 400
	F2	1	4 1/2" x .39 x 0'-[illegible]"	ST 400
	F3	1	4 1/2" x .39 x [illegible]-0"	ST 400
	F5	3	4 1/2" x 1/4" x 1'-6"	ST 400
	PC	1	4 1/2" x [illegible]" x 0'-9"	ST 401
8 SHEAR [illegible]	SA2	6	[illegible] REBAR x 0-[illegible]"	ST 4[illegible]
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400

(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.

(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE 1/4" x 1" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

NO	DATE	REVISION	BY

REF. DRWGS.

7-AB2-3 & 11	7-22-68
7-AB3-11	7-22-68
7-AB4-3, 3.1	1-3-68
7-AB4-15 & 16, 39	7-22-68
7-AB4-42	10-15-68
SA-124	10-11-68
7-AB1-3	7-22-68
7-AB1-6, 7 & 8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 50-58, 60-66, 68-74, 79-91, 93-106 (S)

PANEL E1C - 20' x 59'-8

FABRICATION BY LACLEDE STEEL COMPANY

[illegible] MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB3-11 7-22-68

APPROVED FOR FABRICATION FOR PONYA — DATE 11/15/68

DRAWN BY gdc DATE NOV. 1, 1968

APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE ______

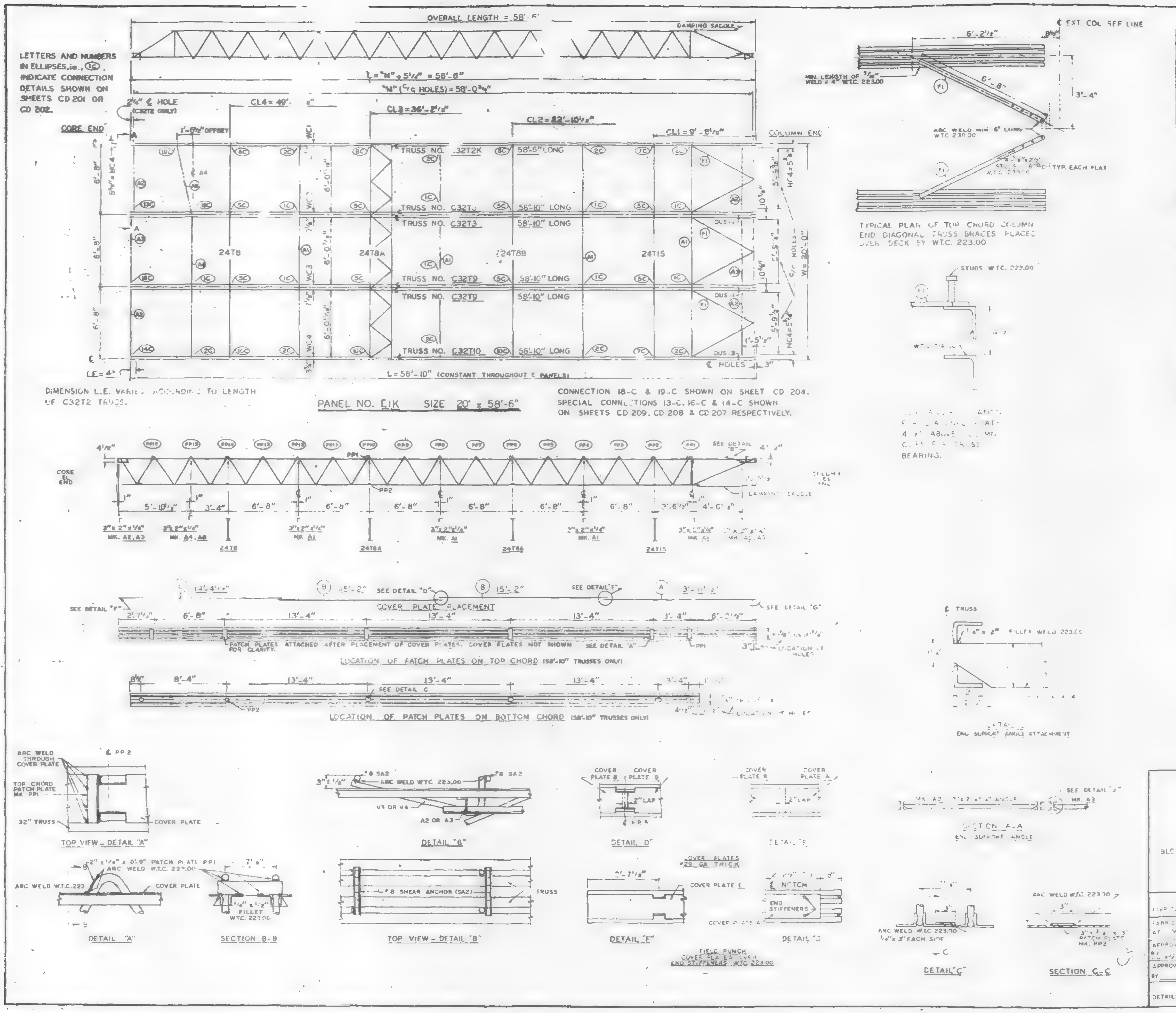
CHECKED BY: T.M.CHURA DATE NOV. 4, 1968

IN CHARGE OF PROD. DEV.

DETAILED BY A-CARL WEBER

FABRICATION CONT. NO. WTC 221

SHEET NO. FP E1C



REQUIRED MATERIAL PER PANEL				
MATERIAL	MK.	PCS.	SIZE	[illegible] WG.
FLOOR TRUSSES	T2K	1	C32T2K - 58'-6"	ST 202K
	T3	2	C32T3 - 58'-10"	ST 203
	T9	2	C32T9 - 58'-10"	ST 209
	T10	1	C32T10 - 58'-10"	ST 210
BRIDGING TRUSSES	T8	1	24T8 - 19'-11"	ST 208
	T8A	1	24T8A - [illegible] 11"	ST 208A
	T8B	1	24T8B - [illegible] 9'-11"	ST 208B
	T15	1	[illegible] 19'-11"	[illegible]
3" x 2" x ¼" ANGLE	A1	4	3" x 2" x ¼" x 19'-11"	[illegible] 403
	A2	4	3" x 2" x ¼" x 5' [illegible]	ST 40[illegible]
	A[illegible]	2	3" x 2" x ¼" x [illegible]	ST [illegible]
	[illegible]	1	[illegible]	[illegible]
	A8	1	3" x 2" x [illegible]	ST [illegible]
DIAGONAL FLATS	[illegible]	[illegible]	[illegible] x 6'-9	ST 402
COVER PLATES	A	3	[illegible] x .0135" x 13'-11½"	ST 303
	B	8	9" x .0135" x 15'-2"	ST 303
	[illegible]	3	[illegible] x .0135" x 14'-4½"	ST 303
[illegible]	C1	2[illegible]	2" x 1½" x ¼" x 0'-8"	ST 400
	C2	4	2½" x 1½" x ¼" x 6'	ST 400
DAMPING SADDLE	DUS-1	2	3½" x 3½" x [illegible] x 3'-6[illegible]	ST 298
	DUS-3	1	3½" x 3½" x [illegible] x 3'-6[illegible]	ST 298
CONNECTION BAR	CB1	1	1" ϕ x 1'-3"	ST 400
	CB2	6	1¾" ϕ x 1'-3"	ST 400
	CB3	6	1⅝" ϕ x 1'-5"	ST 400
CONNECTION PLATES	[illegible]	5	[illegible]	ST 400
	F[illegible]	1	[illegible]	ST 400
	F[illegible]	[illegible]	[illegible]	ST 400
	F5	3	[illegible] x ¼" x 1'-6"	ST 400
	PF	1	[illegible]	ST 401
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-[illegible]	ST 400
PATCH PLATES	PP1	18	2" x [illegible] x 0'-9"	ST 400
	PP2	18	3" x ⅜" x 0'-3"	ST 400

(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.

(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE ¼" x 1" FULL THROAT FILLET.

A = ¼"
B = ¼"

NO	DATE	REVISION	BY

REF. DRWGS.

7-AB2-3 & 10	7-22-68
7-AB3-11	7-22-68
7-AB4-3,31	1-3-68
7-AB4-15 & 16,30	7-22-68
7-AB4-42	10-15-68
SA-124	10-11-68
7-AB1-3	7-22-68
7-AB1-6,7 & 8	7-22-68

FLOOR PANEL DETAILS
WORLD TRADE CENTER - N.Y.C.
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 46 (N)

PANEL EIK - 20' x 58'-6"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO 7 AB3-11 7-22-68

PLATE

APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. DATE 11/15/68

DRAWN BY [illegible] DATE NOV. 1, 1968

APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

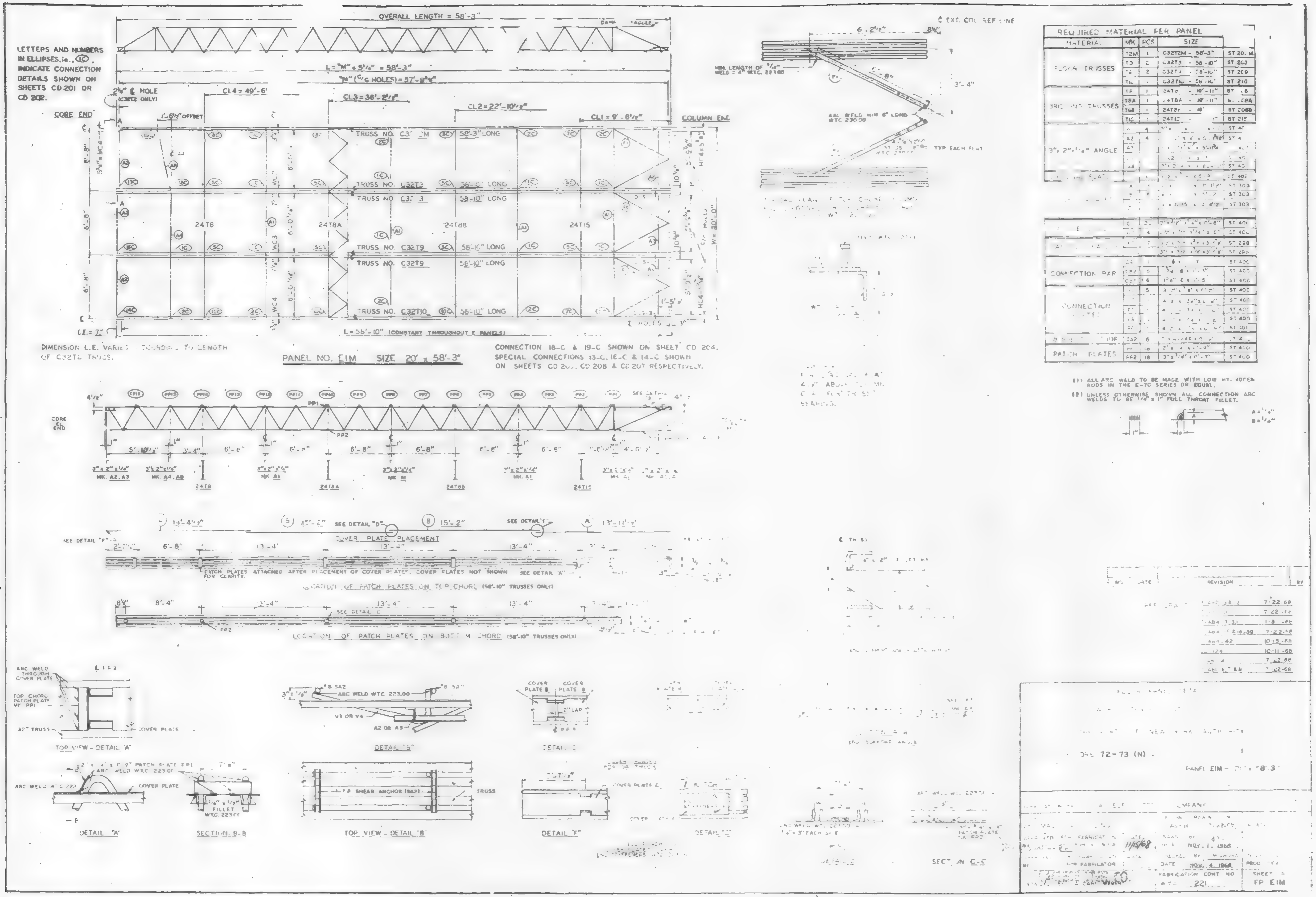
CHECKED BY: T.M.CHURA DATE NOV. 4, 1968

IN CHARGE OF PROD. DEV.

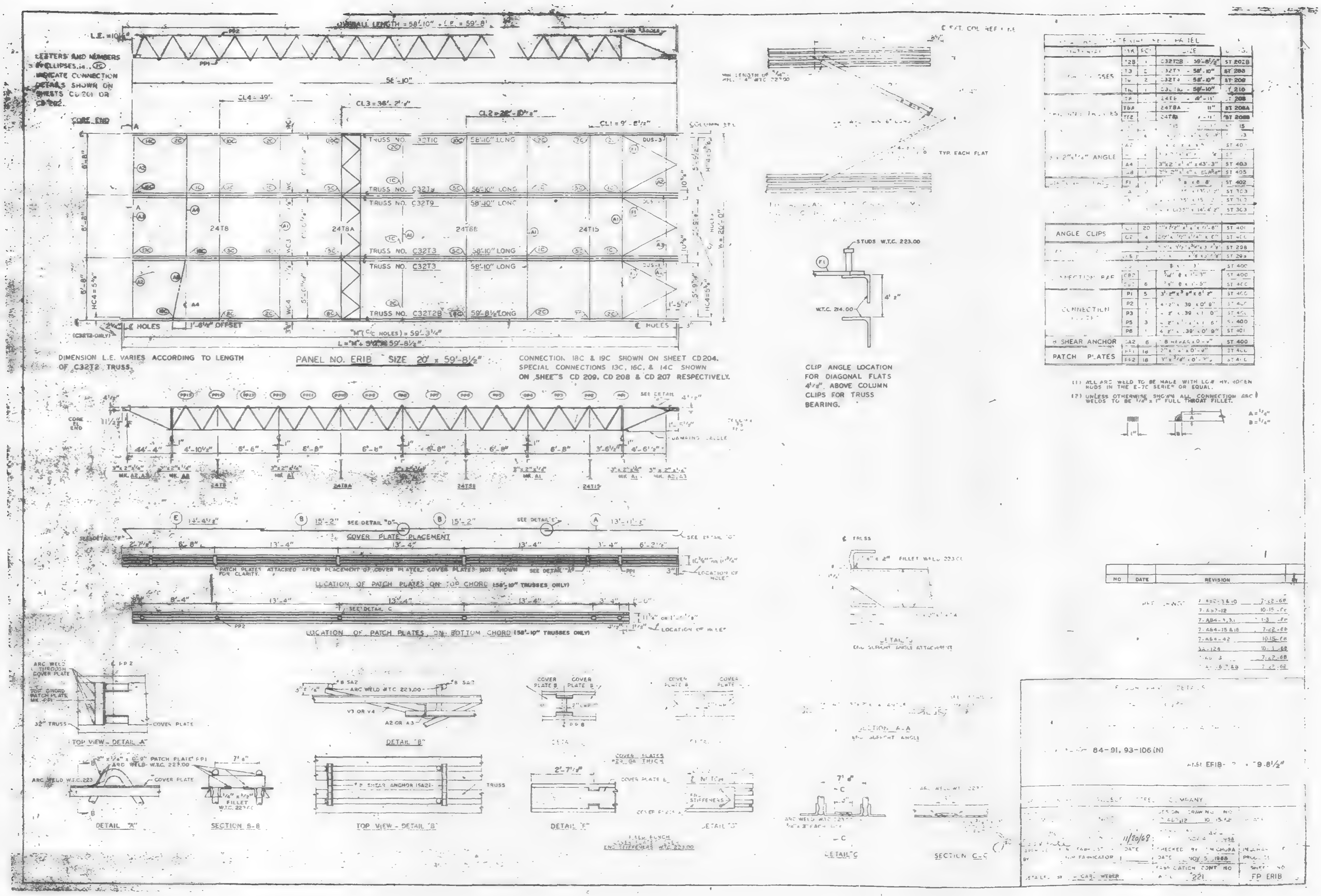
DETAILED BY CARL WEBER

FABRICATION CONT. NO W.T.C. 221

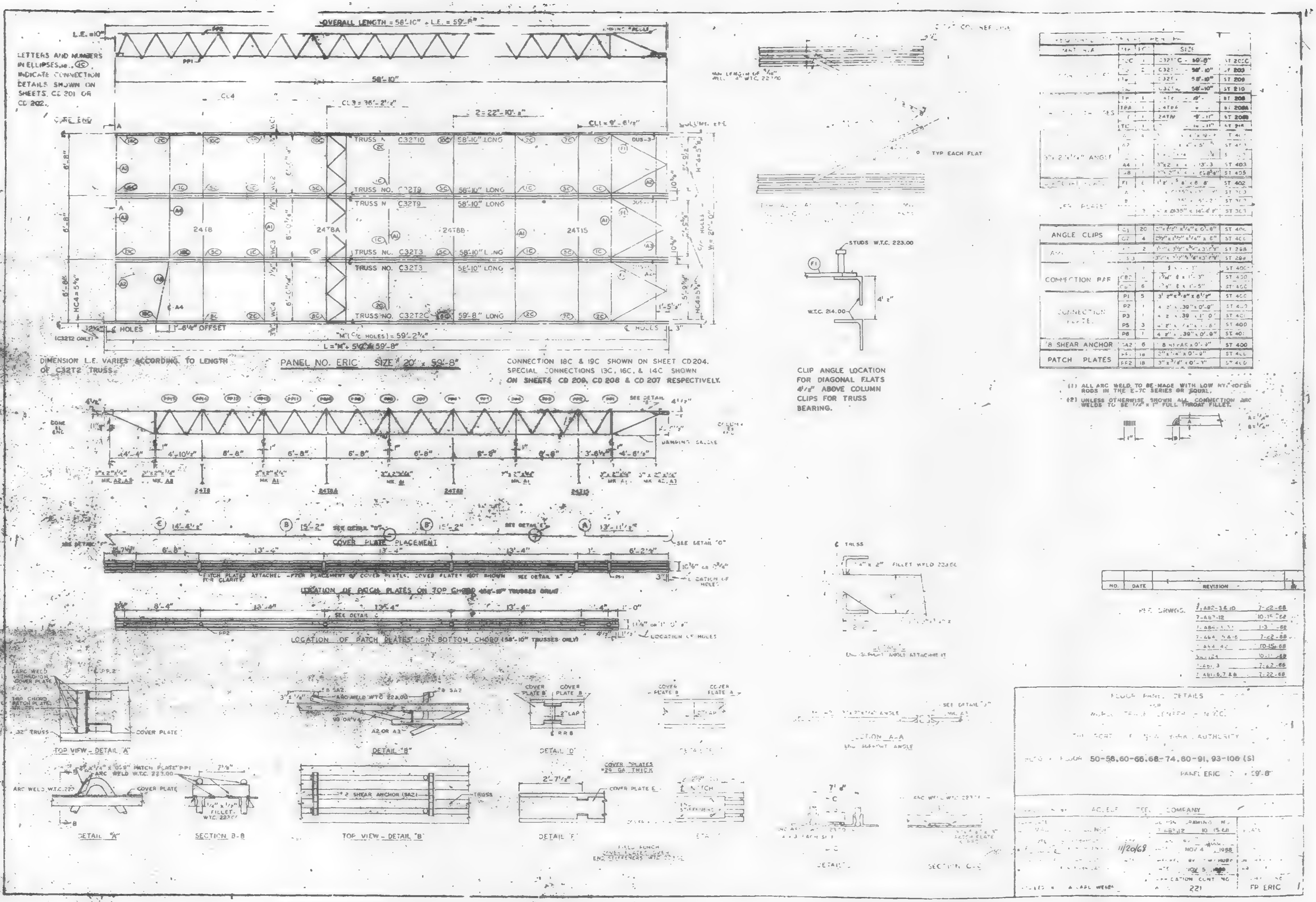
SHEET NO FP EIK



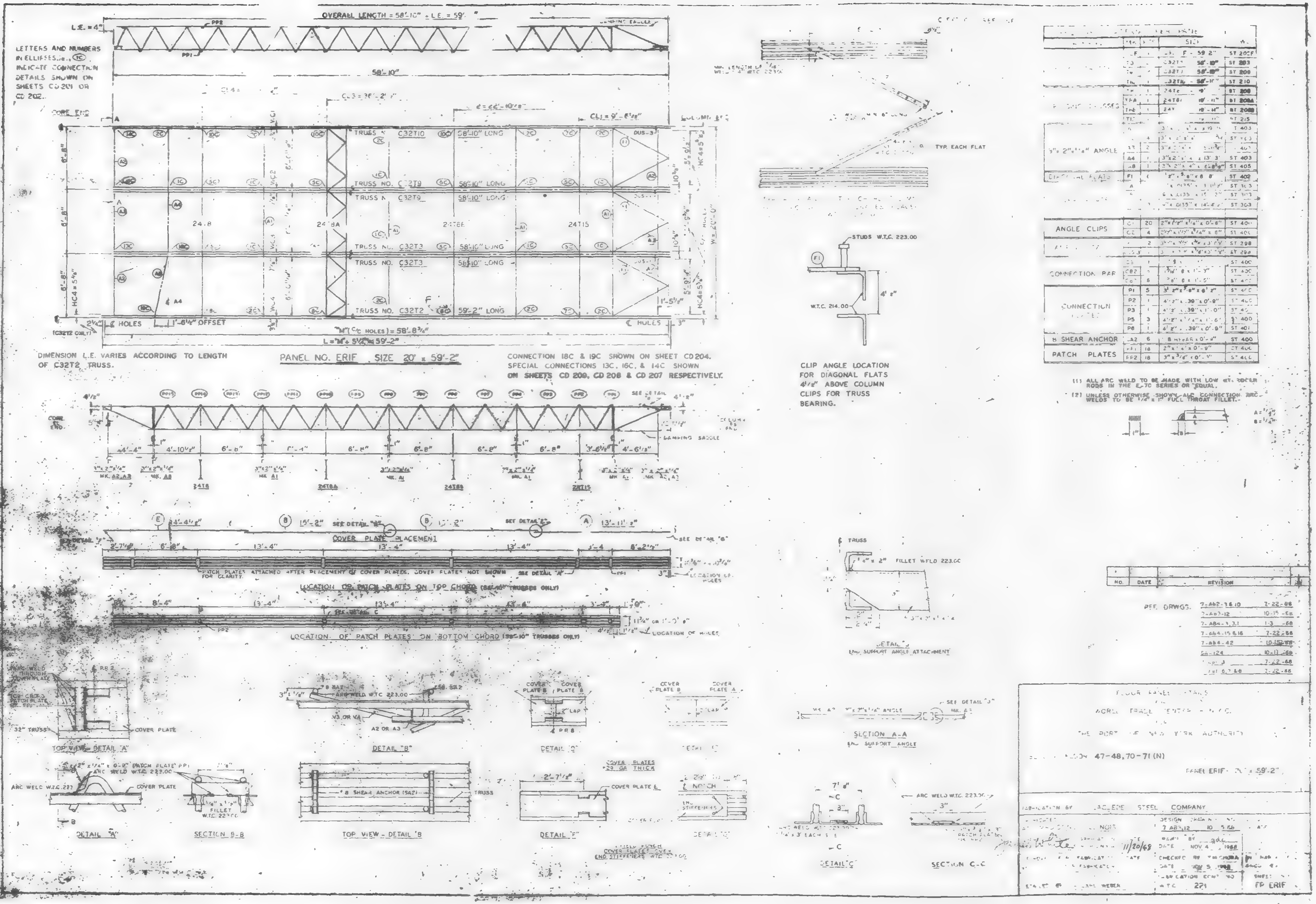
LETTERS AND NUMBERS IN ELLIPSES, ie., (1C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.
OVERALL LENGTH = 58'-3"
L = "M" + 5¼" = 58'-3"
"M" (C/C HOLES) = 57'-9¾"
CL4 = 49'-6'
CL3 = 36'-2⅛"
CL2 = 22'-10½"
CL1 = 9'-8½"
CORE END
COLUMN END
TRUSS NO. C32T2M 58'-3" LONG
TRUSS NO. C32T3 58'-10" LONG
TRUSS NO. C32T9 58'-10" LONG
TRUSS NO. C32T10 58'-10" LONG
24T8
24T8A
24T8B
24T15
L = 58'-10" (CONSTANT THROUGHOUT E PANELS)
DIMENSION L.E. VARIES ACCORDING TO LENGTH OF C32T2 TRUSS.
PANEL NO. E1M SIZE 20' x 58'-3"
CONNECTION 18-C & 19-C SHOWN ON SHEET CD 204. SPECIAL CONNECTIONS 13-C, 16-C & 14-C SHOWN ON SHEETS CD 205, CD 208 & CD 207 RESPECTIVELY.
REQUIRED MATERIAL PER PANEL
MATERIAL
MK
PCS
SIZE
FLOOR TRUSSES
BRIDGING TRUSSES
3" x 2" x ¼" ANGLE
CONNECTION BAR
CONNECTION PLATES
PATCH PLATES
(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE ¼" x 1" FULL THROAT FILLET.
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATE. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD (58'-10" TRUSSES ONLY)
LOCATION OF PATCH PLATES ON BOTTOM CHORD (58'-10" TRUSSES ONLY)
TOP VIEW - DETAIL "A"
DETAIL "B"
DETAIL "C"
DETAIL "A"
SECTION B-B
TOP VIEW - DETAIL "B"
DETAIL "F"
SECTION C-C
REVISION
OHS 72-73 (N)
PANEL E1M - 20' x 58'-3"
NOV. 1, 1968
NOV. 4, 1968
FABRICATION CONT. NO.
221
FP E1M

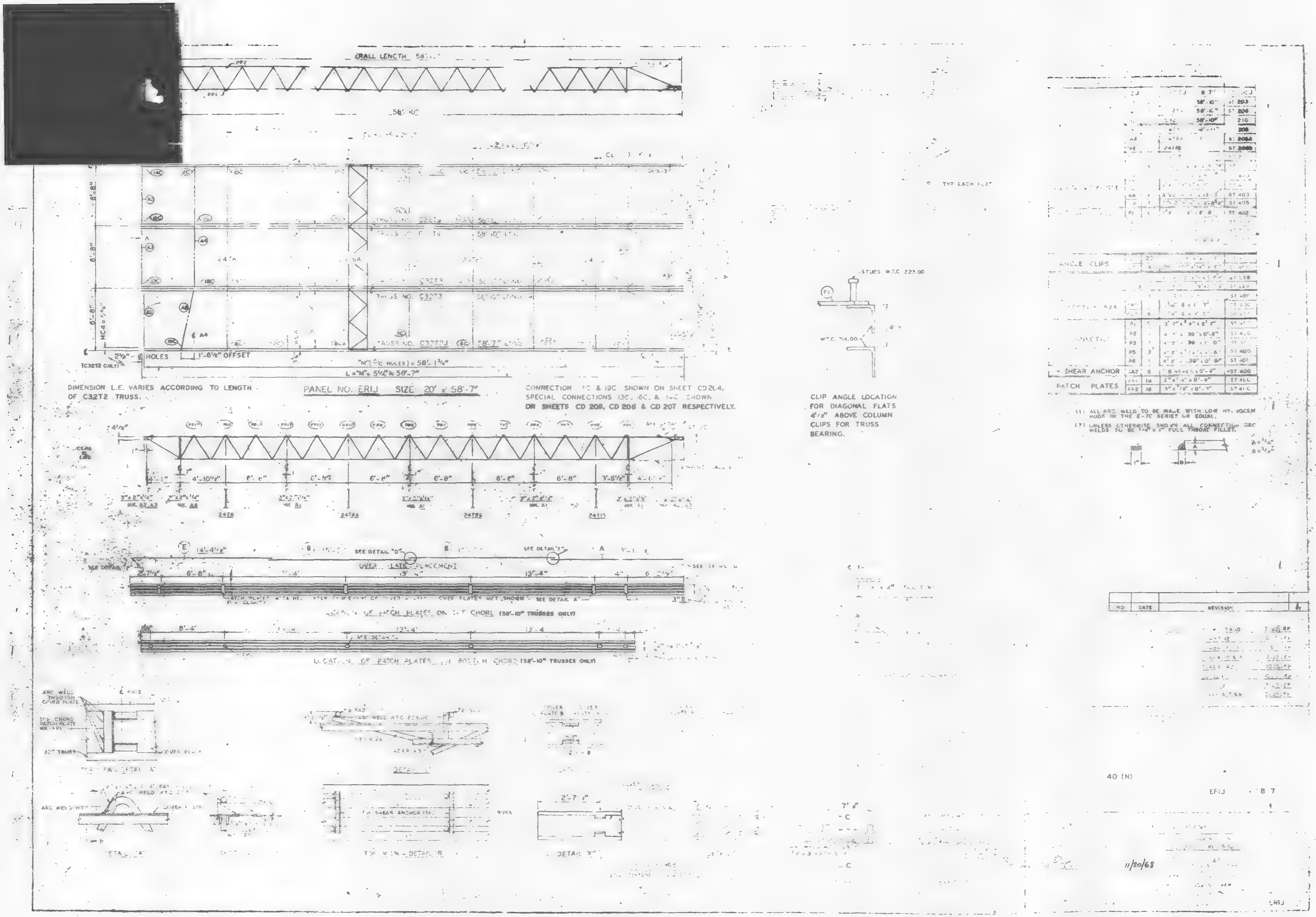


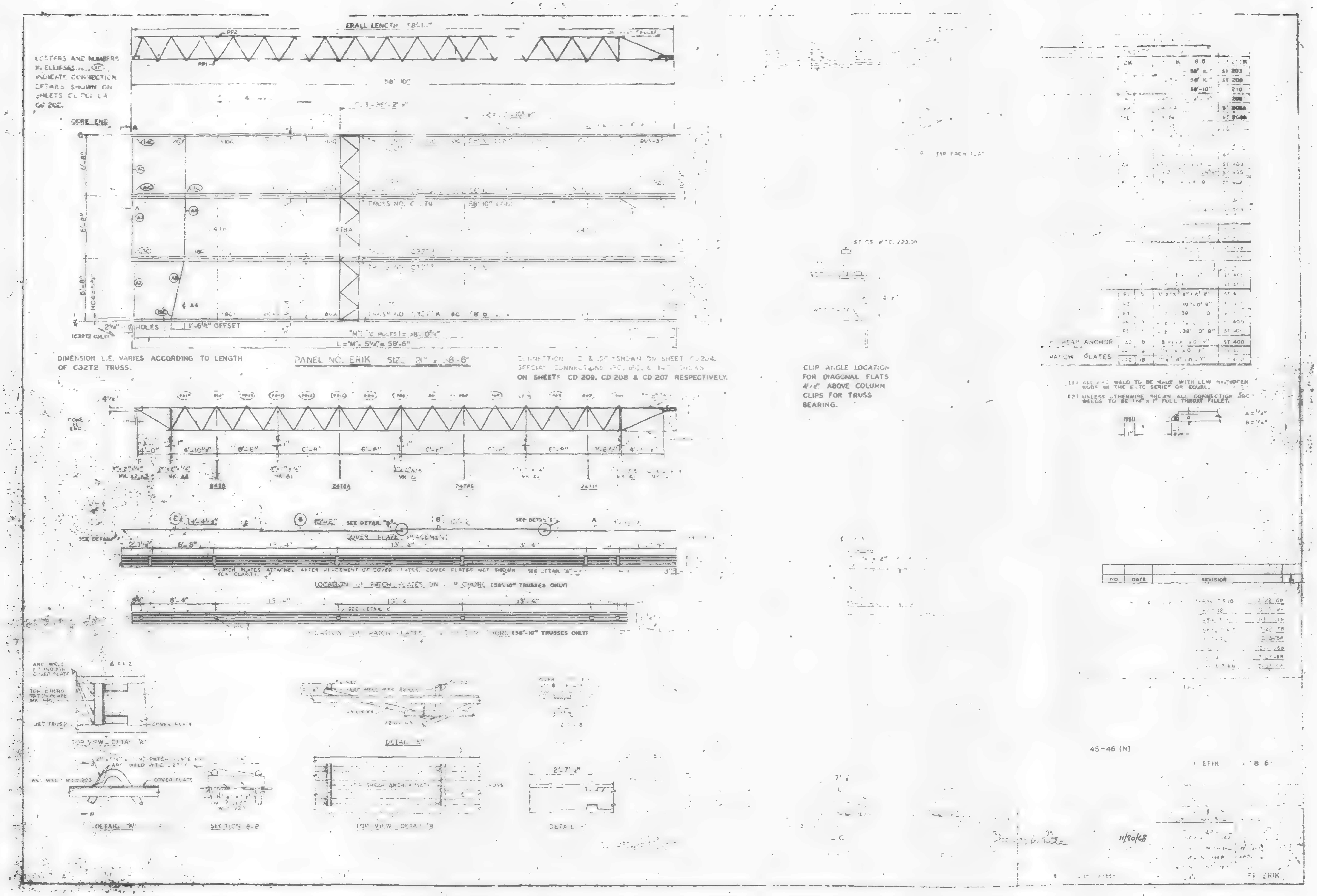
OVERALL LENGTH = 58'-10" + L.E. = 59'-8"
LETTERS AND NUMBERS IN ELLIPSES, i.e. (1C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.
CORE END
CL4 = 49'
CL3 = 36'-2"
CL1 = 9'-8½"
TRUSS NO. C32T1C 58'-10" LONG
TRUSS NO. C32T1 58'-10" LONG
TRUSS NO. C32T9 58'-10" LONG
TRUSS NO. C32T3 58'-10" LONG
TRUSS NO. C32T3 58'-10" LONG
TRUSS NO. C32T2B 59'-8½" LONG
24T8
24T8A
24T8B
24T15
L = "M" + 3½" = 59'-8½"
DIMENSION L.E. VARIES ACCORDING TO LENGTH OF C32T2 TRUSS.
PANEL NO. ERIB SIZE 20' x 59'-8½"
CONNECTION 18C & 19C SHOWN ON SHEET CD204. SPECIAL CONNECTIONS 13C, 16C, & 14C SHOWN ON SHEETS CD 209, CD 208 & CD 207 RESPECTIVELY.
DAMPING SADDLE
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD (58'-10" TRUSSES ONLY)
LOCATION OF PATCH PLATES ON BOTTOM CHORD (58'-10" TRUSSES ONLY)
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
STUDS W.T.C. 223.00
W.T.C. 214.00
TYP. EACH FLAT
ANGLE CLIPS
CONNECTION PLATES
SHEAR ANCHOR
PATCH PLATES
(1) ALL ARC WELD TO BE MADE WITH LOW HY. ROGEN RODS IN THE E-70 SERIES OR EQUAL.
(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE ⅛" x 1" FULL THROAT FILLET.
NO DATE REVISION
7-A64-15 & 16 7-22-68
7-A64-42 10-15-68
SA-124 10-1-68
TOP VIEW - DETAIL "A"
DETAIL "B"
DETAIL "A"
SECTION B-B
TOP VIEW - DETAIL "B"
DETAIL "F"
DETAIL "G"
DETAIL "C"
SECTION C-C
SECTION A-A
84-91, 93-106 (N)
EFIB - 9'-8½"
COMPANY
DESIGN DRAWING NO
11/20/68
CHECKED BY CHUPA
DATE NOV 5, 1968
FABRICATION CONT NO
221
SHEET NO
FP ERIB
DETAILED BY CARL WEBER



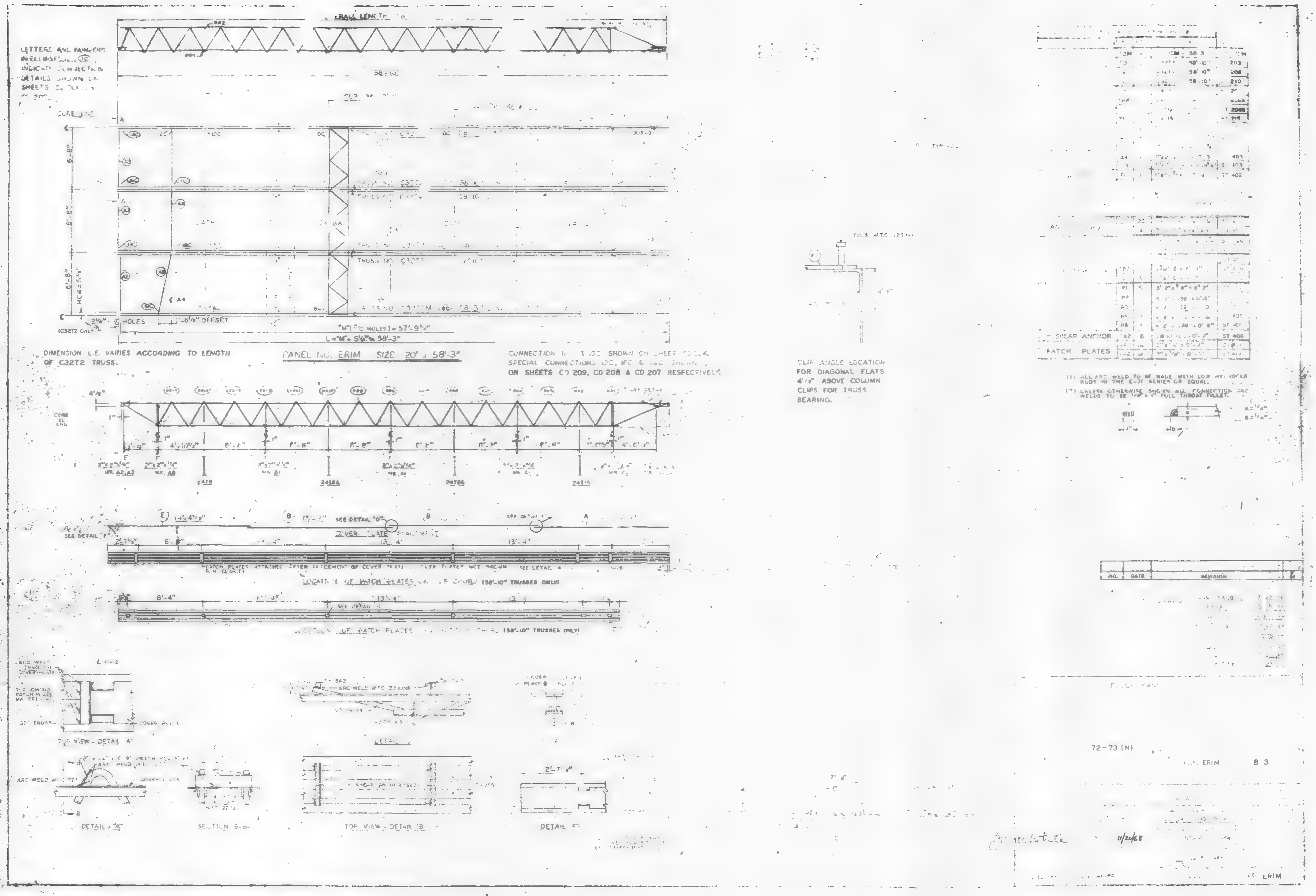
OVERALL LENGTH = 58'-10" + L.E. = 59'-8"
LETTERS AND NUMBERS IN ELLIPSES, i.e., (2C), INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.
58'-10"
TRUSS NO. C32T10 58'-10" LONG
TRUSS NO. C32T9 58'-10" LONG
TRUSS NO. C32T9 58'-10" LONG
TRUSS NO. C32T3 58'-10" LONG
TRUSS NO. C32T3 58'-10" LONG
TRUSS NO. C32T2C 59'-8" LONG
24T8
24T8A
24T8B
24T15
L = "M" + 5'-2 = 59'-8"
DIMENSION L.E. VARIES ACCORDING TO LENGTH OF C32T2 TRUSS.
PANEL NO. ERIC SIZE 20' x 59'-8"
CONNECTION 18C & 19C SHOWN ON SHEET CD204. SPECIAL CONNECTIONS 13C, 16C, & 14C SHOWN ON SHEETS CD 209, CD 208 & CD 207 RESPECTIVELY.
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD
LOCATION OF PATCH PLATES ON BOTTOM CHORD (58'-10" TRUSSES ONLY)
TYP EACH FLAT
STUDS W.T.C. 223.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4'1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
ANGLE CLIPS
CONNECTION BAR
CONNECTION PLATE
8 SHEAR ANCHOR
PATCH PLATES
(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE 1/4" x 1" FULL THROAT FILLET.
NO. DATE REVISION
TOP VIEW - DETAIL "A"
DETAIL "B"
DETAIL "D"
DETAIL "A"
SECTION B-B
TOP VIEW - DETAIL "B"
DETAIL "E"
SECTION A-A
SECTION C-C
FLOOR PANEL DETAILS
WORLD TRADE CENTER - N.Y.C.
THE PORT OF NEW YORK AUTHORITY
FLOOR 50-58, 60-66, 68-74, 80-91, 93-106 (S)
PANEL ERIC 20' x 59'-8"
COMPANY
11/20/68
NOV 4 1968
NOV 5
221
FP ERIC

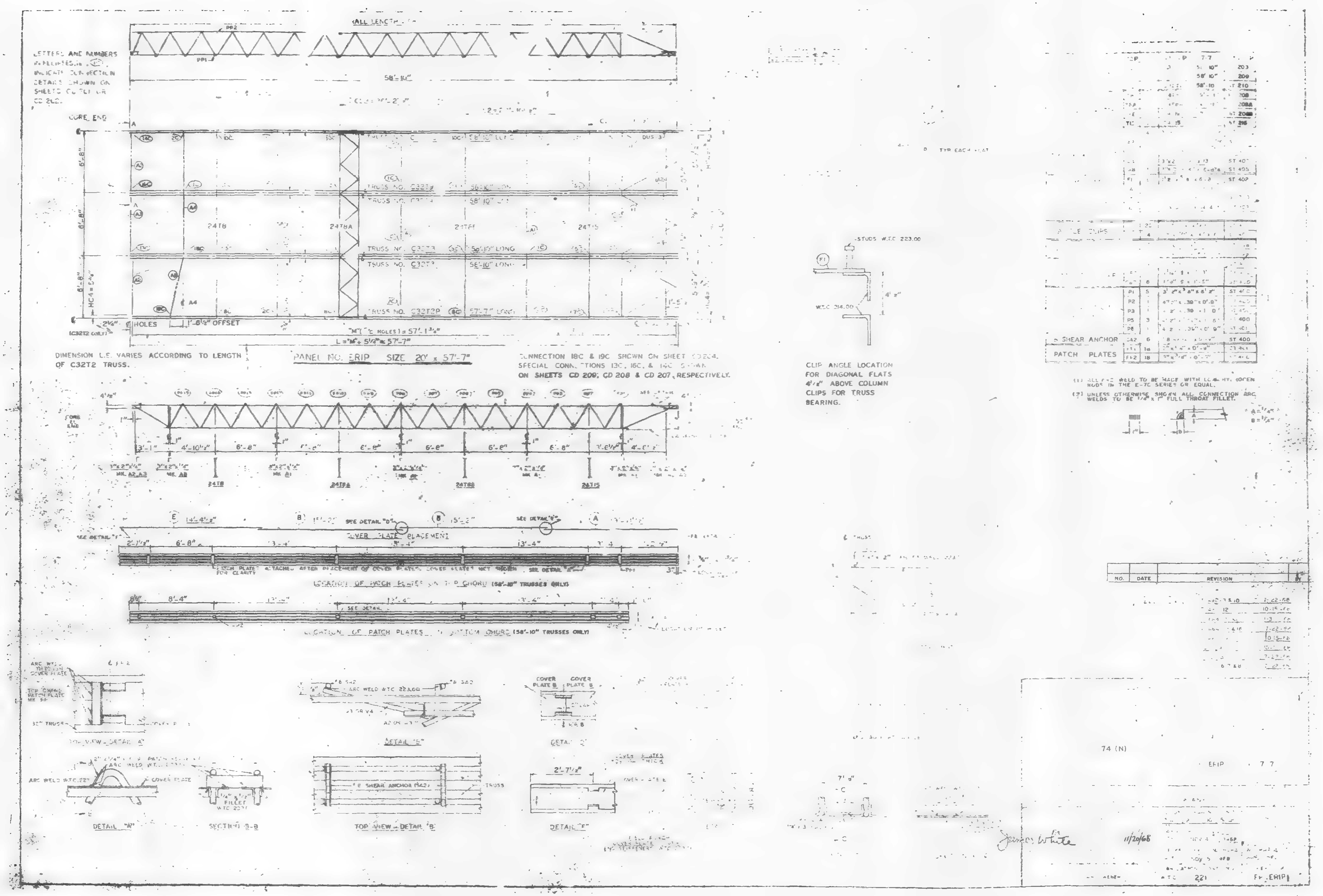

OVERALL LENGTH = 58'-10" + L.E. = 59'
L.E. = 4"
58'-10"
LETTERS AND NUMBERS IN ELLIPSES, e.g. (7C) INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201 OR CD 202.
CORE END
TRUSS NO. C32T10 58'-10" LONG
TRUSS NO. C32T9 58'-10" LONG
TRUSS NO. C32T3 58'-10" LONG
TRUSS NO. C32T2 59'-2" LONG
24T8
24T8A
24T8B
24T15
1'-8¼" OFFSET
℄ HOLES
(C32T2 ONLY)
"M" (C/C HOLES) = 58'-8¾"
L = "M" + 5½" = 59'-2"
DIMENSION L.E. VARIES ACCORDING TO LENGTH OF C32T2 TRUSS.
PANEL NO. ERIF SIZE 20' x 59'-2"
CONNECTION 18C & 19C SHOWN ON SHEET CD 204. SPECIAL CONNECTIONS 13C, 16C, & 14C SHOWN ON SHEETS CD 209, CD 208 & CD 207 RESPECTIVELY.
DAMPING SADDLE
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD (58'-10" TRUSSES ONLY)
LOCATION OF PATCH PLATES ON BOTTOM CHORD (58'-10" TRUSSES ONLY)
LOCATION OF HOLES
TOP VIEW - DETAIL "A"
DETAIL "B"
DETAIL "C"
DETAIL "A"
SECTION B-B
TOP VIEW - DETAIL "B"
DETAIL "E"
COVER PLATES 29 GA THICK
SHEAR ANCHOR (SA2)
TYP. EACH FLAT
STUDS W.T.C. 223.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
FILLET WELD 223.00
END SUPPORT ANGLE ATTACHMENT
SECTION A-A
END SUPPORT ANGLE
DETAIL "C"
SECTION C-C
ANGLE CLIPS
CONNECTION PLATES
SHEAR ANCHOR
PATCH PLATES
(1) ALL ARC WELD TO BE MADE WITH LOW HY. ROGEN RODS IN THE E-70 SERIES OR EQUAL.
(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE 1/4" FULL THROAT FILLET.
NO. DATE REVISION
REF. DRWGS.
WORLD TRADE CENTER - N.Y.C.
THE PORT OF NEW YORK AUTHORITY
FLOOR 47-48, 70-71 (N)
PANEL ERIF 20' x 59'-2"
FABRICATION BY LACLEDE STEEL COMPANY
11/20/68
NOV 4 1968
NOV 5 1968
W.T.C. 271
FP ERIF


OVERALL LENGTH 58'-
58'-10"
TRUSS NO. C32T3
58'-10" LONG
TRUSS NO. C32T2J
58'-7" LONG
HC4=5⅞"
(C3212 ONLY)
2⅛" HOLES
1'-6½" OFFSET
"M"(C/C HOLES) = 58'-1¾"
L = "M" + 5⅛" = 58'-7"
DIMENSION L.E. VARIES ACCORDING TO LENGTH OF C32T2 TRUSS.
PANEL NO. ERIJ SIZE 20' x 58'-7"
CONNECTION 7C & 19C SHOWN ON SHEET CD204. SPECIAL CONNECTIONS 13C, 16C, & 14C SHOWN ON SHEETS CD 209, CD 206 & CD 207 RESPECTIVELY.
STUDS W.T.C. 223.00
W.T.C. 214.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4½" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
ANGLE CLIPS
SHEAR ANCHOR
PATCH PLATES
(1) ALL ARC WELD TO BE MADE WITH LOW HY. RODS IN THE E-70 SERIES OR EQUAL.
(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE ¼" x 1" FULL THROAT FILLET.
4'-10½"
6'-8"
3'-6½"
24T8
24T8A
24T6
24T15
SEE DETAIL "D"
SEE DETAIL "E"
COVER PLATE PLACEMENT
LOCATION OF PATCH PLATES ON TOP CHORD (58'-10" TRUSSES ONLY)
LOCATION OF PATCH PLATES ON BOTTOM CHORD (58'-10" TRUSSES ONLY)
ARC WELD THROUGH COVER PLATE
32" TRUSS
TOP VIEW - DETAIL "A"
SHEAR ANCHOR
TOP VIEW - DETAIL "B"
DETAIL "E"
2'-7"
7'-8"
NO. DATE REVISION BY
40 (N)
ERIJ
11/20/68
ERIJ

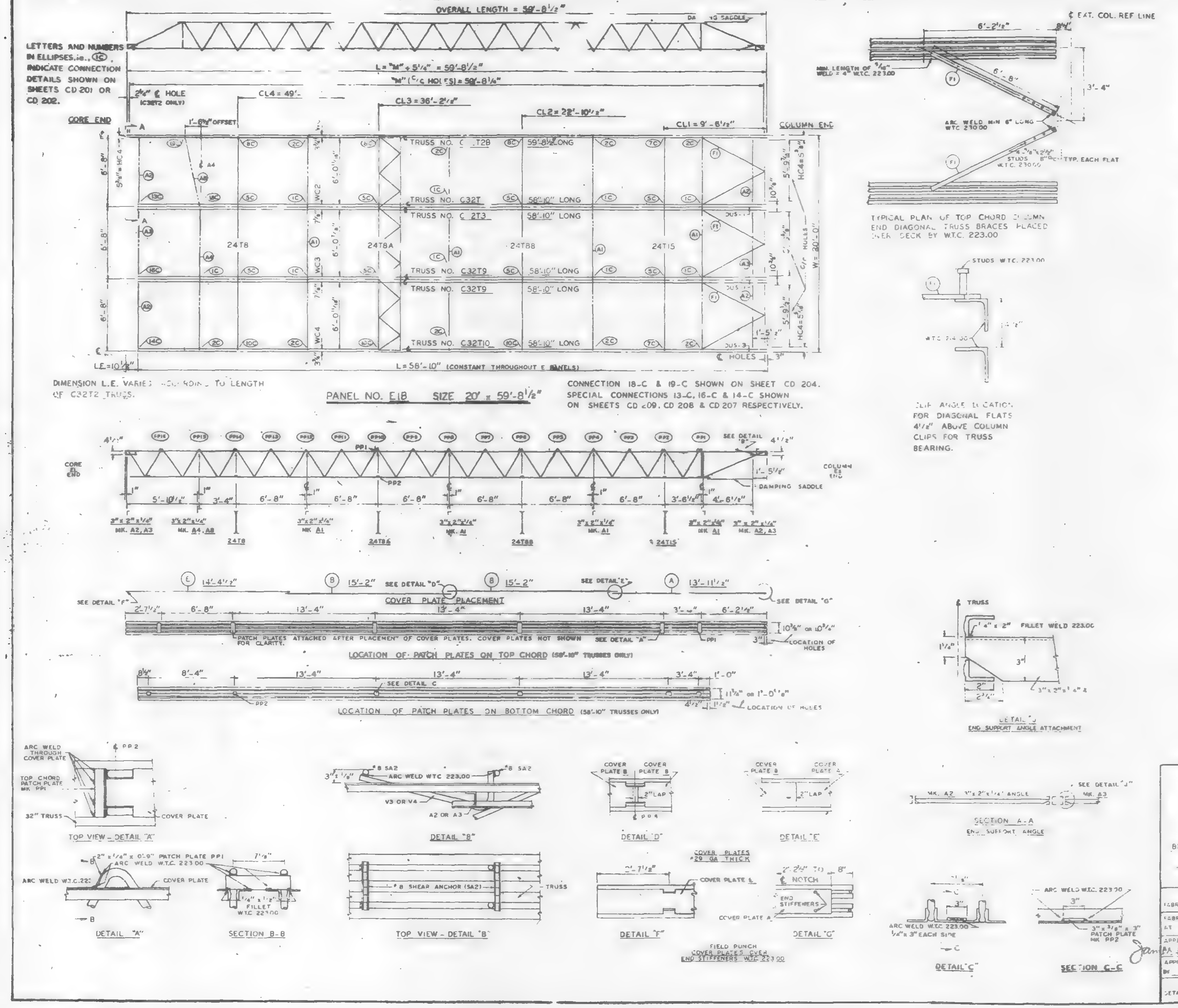


DIMENSION L.E. VARIES ACCORDING TO LENGTH OF C32T2 TRUSS.
PANEL NO. ERIK SIZE 20' x 58'-6"
ON SHEETS CD 209, CD 208 & CD 207 RESPECTIVELY.
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
COVER PLATE PLACEMENT
(58'-10" TRUSSES ONLY)
SECTION B-B
NO
DATE
REVISION
45-46 (N)
11/20/68


DIMENSION L.E. VARIES ACCORDING TO LENGTH OF C32T2 TRUSS.
PANEL NO. ERIM SIZE 20' x 58'-3"
ON SHEETS CD 209, CD 208 & CD 207 RESPECTIVELY
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/8" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
SHEAR ANCHOR
PATCH PLATES
COVER PLATE
NO.
DATE
REVISION
72-73 (N)
ERIM
11/20/68
DETAIL "A"
TOP VIEW - DETAIL "B"



WALL LENGTH
58'-10"
CORE END
TRUSS NO. C32T3
58'-10" LONG
TRUSS NO. C32T2P
57'-7" LONG
24T8
24THA
HOLES
1'-8½" OFFSET
(C32T2 ONLY)
"M" (C HOLES) = 57'-1¾"
L = "M" + 5½" = 57'-7"
DIMENSION L.E. VARIES ACCORDING TO LENGTH OF C32T2 TRUSS.
PANEL NO. ERIP SIZE 20' x 57'-7"
CONNECTION 18C & 19C SHOWN ON SHEET CD204. SPECIAL CONNECTIONS 13C, 16C, & 14C SHOWN ON SHEETS CD 209, CD 208 & CD 207 RESPECTIVELY.
STUDS W.T.C. 223.00
W.T.C. 214.00
4'-2"
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4'-2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
SHEAR ANCHOR
PATCH PLATES
ST 400
(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE ¼" x 1" FULL THROAT FILLET.
4'-10½"
6'-8"
24T8
24THA
24T15
14'-4½"
15'-2"
SEE DETAIL "D"
SEE DETAIL "E"
COVER PLATE PLACEMENT
2'-7½"
6'-8"
13'-4"
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY
LOCATION OF PATCH PLATES ON TOP CHORD (58'-10" TRUSSES ONLY)
8'-4"
SEE DETAIL
LOCATION OF PATCH PLATES ON BOTTOM CHORD (58'-10" TRUSSES ONLY)
NO.
DATE
REVISION
ARC WELD THROUGH COVER PLATE
TOP CHORD PATCH PLATE MK. PP
32" TRUSS
TOP VIEW - DETAIL "A"
ARC WELD W.T.C. 223.00
DETAIL "C"
COVER PLATE B
COVER PLATE B
DETAIL "D"
74 (N)
ERIP
ARC WELD W.T.C. 223
COVER PLATE
DETAIL "A"
FILLET
SECTION B-B
SHEAR ANCHOR (SA2)
TRUSS
TOP VIEW - DETAIL "B"
2'-7½"
DETAIL "E"
11/20/68
221



REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	T2B	1	C32T2B - 59'-8 1/2"	ST 202B
	T3	2	C32T3 - 58'-10"	ST 203
	T9	2	C32T9 - 58'-10"	ST 209
	T10	1	C32T10 - 58'-10"	ST 210
BRIDGING TRUSSES	T8	1	24T8 - 19'-11"	ST 208
	T8A	1	24T8A - 19'-11"	ST 208A
	T8B	1	24T8B - [illegible]-11"	ST 208B
	T15	1	24T15 [illegible]-11"	ST 215
3" x 2" x 1/4" ANGLE	A1	4	3" x 2" [illegible] x 19'-11"	ST [illegible]3
	A2	4	[illegible] x 2" x 1/4" x 5'-1 5/8"	ST [illegible]3
	A3	2	3" x 2" x 1/4" x 5'-[illegible]	ST 403
	A4	1	[illegible]	ST 40[illegible]
	A8	1	3" x 2" x 1/4" x 6'-[illegible]	ST 405
DIAGONAL FLATS	F1	6	[illegible] 2" x 5/8" x 6'-9"	ST 402
COVER PLATES	A	3	9" [illegible] .035" x 13'-11 1/2"	ST 303
	B	6	9" [illegible] .035" x 15'-2"	ST 303
	E	3	9" x .0135" x 14'-4 1/2"	ST 303
ANGLE CLIPS	C1	26	2" x 1 1/2" x 1/4" x 0'-8"	ST 400
	C2	4	2 1/2" x 1 1/2" x 1/4" x 6"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-3	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB	1	1" ϕ x [illegible]-3"	ST 400
	CB2	6	3/4" ϕ x 1'-3"	ST 400
	CB3	6	1 5/8" ϕ x 1'-5"	ST 400
CONNECTION PLATES	P1	5	3" 2" x [illegible] 8" [illegible] 2"	ST 400
	P2	1	4" 2" x [illegible]	ST 400
	P3	1	4" [illegible] x 3[illegible] 0"	ST 400
	P5	3	4" 2" x 1/4" x 1'-6"	ST 400
	P6	1	4" 2" x [illegible] x 0'-9"	ST 401
#8 SHEAR ANCHOR	SA2	6	[illegible] x 0'-[illegible]"	ST 400
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400

(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.

(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE 1/4" x 1" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

NO	DATE	REVISION	BY

REF. DRWGS.

7-AB2-3 & 10	7-22-68
7-AB3-11	7-22-68
7-AB4-3, 3.1	1-3-68
7-AB4-15 & 16, 30	7-22-68
7-AB4-42	10-15-68
SA-124	10-11-68
7-AB1-3	7-22-68
7-AB1-6, 7 & 8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 84-91, 93-106 (N)

PANEL E18 - 20' x 59'-8 1/2"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7 AB3-11 7-22-68

PLATE

APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 11/15/68

DRAWN BY adc DATE NOV. 1, 1968

APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

CHECKED BY T.M.CHURA DATE NOV. 4, 1968

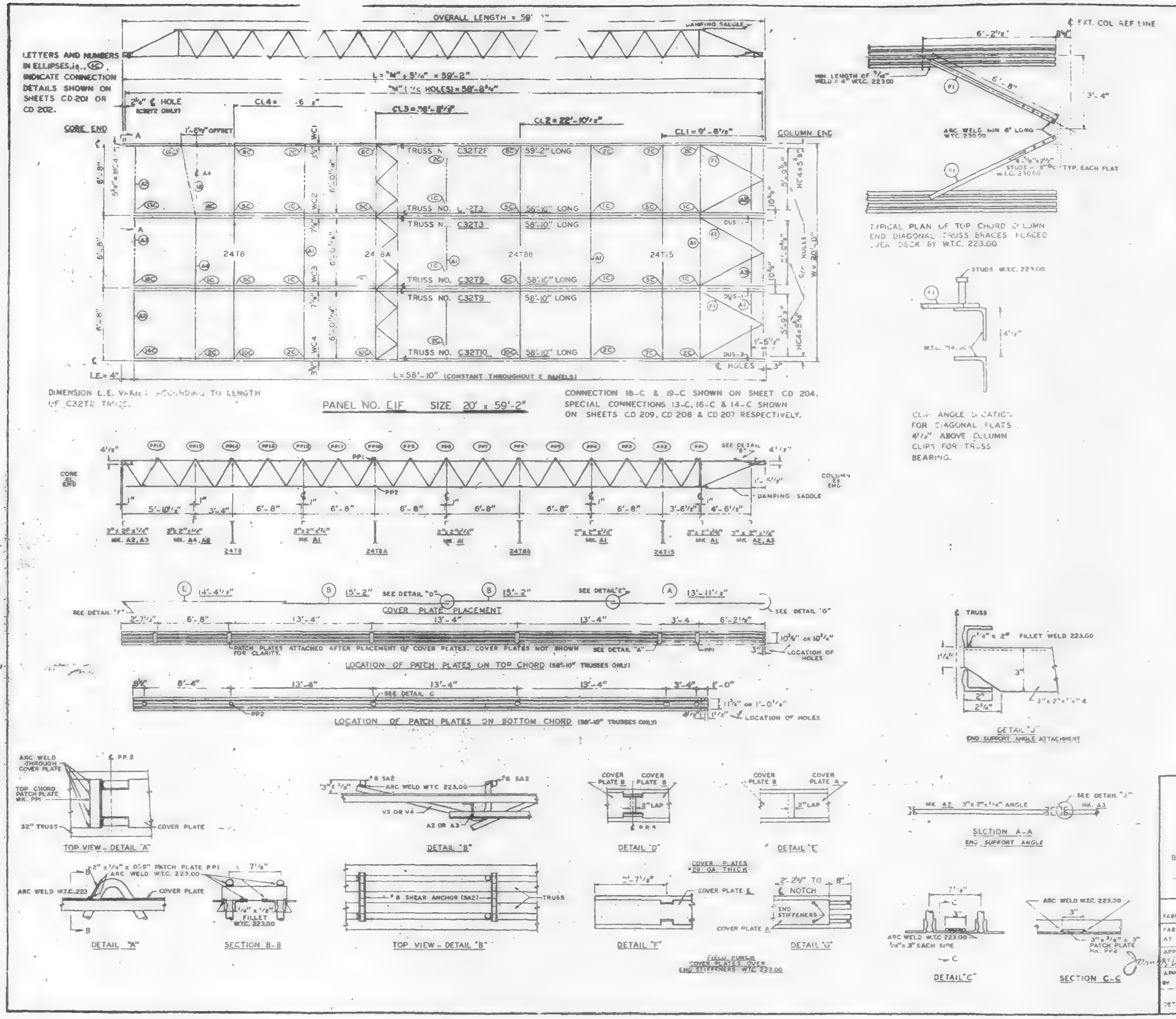
IN CHARGE OF PROD. DEV.

LACLEDE STEEL CO.

DETAILED BY E. CARL WEBER

FABRICATION CONT. NO. W.T.C. 221

SHEET NO. FP E18



REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS.	SIZE	DWG
FLOOR TRUSSES	T2F	1	C32T2F - 59'-2"	ST 202F
	T3	2	C32T3 - 58'-10"	ST 203
	T9	2	C32T9 - [illegible]'-10"	ST 209
	T10	1	C32T10 - 58'-10"	ST 210
BRIDGING TRUSSES	T8	1	24T8 - 19'-[illegible]	ST 208
	T8A	1	24T8A - 19'-11"	ST 208A
	T8B	1	24T[illegible] - 19'-11"	ST 208B
	T15	1	2[illegible] - 19'-11"	ST [illegible]
3"x 2"x 1/4" ANGLE	A1	1	3" x 2" x 1/4" x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" [illegible]	ST 403
	A3	2	3" x 2" x 1/4" 5'-1[illegible]"	ST 403
	A4	1	3" x 2" x 1/4" x [illegible] 3"	ST 403
	A8	1	3" x 2" x 1/4" x 6'-8 3/8"	ST 403
DIAGONAL FLATS	F1	6	2" x 5/8" x 6'-9"	ST 402
COVER PLATES	A	3	9" x .0135" x 13'-11 1/2"	ST 303
	B	6	9" x .0135" x 15'-2"	ST 303
	E	3	9" x .0135" x 14'-4 1/2"	ST 303
ANGLE CLIPS	C1	20	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
	C2	4	2 1/2" x 1 1/2" x 1/4" x 6"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-3	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	1	1" ϕ x 1'-3"	ST 400
	CB2	6	1 3/8" ϕ x 1'-3"	ST 400
	CB3	6	1 5/8" ϕ x 1'-5"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	1	4 1/2" x .34" x 0'-8"	ST 400
	P3	1	4 1/2" x .34" x 0'-0"	ST 400
	P5	3	4 1/2" x 1/4" x 1'-6"	ST 400
	P6	1	4 1/2" x .34" x 6'-9"	ST 401
8 SHEAR CONNECTOR	SA2	6	[illegible] ϕ REBAR x 0'-4"	ST 400
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400

(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.

(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE 1/4" x 1" FULL THROAT FILLET.

A = 1/4"
B = 1/4t.

NO.	DATE	REVISION	BY

REF. DRWGS.

7-AB2-3 & 10	7-22-68
7-AB3-11	7-22-68
7-AB4-1,3,31	1-3-68
7-AB4-15 & 16,38	7-22-68
7-AB4-42	10-13-68
SA-124	10-11-68
7-AB1-3	7-22-68
7-AB1-6,7 & 8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 47-48, 70-71 (N)

PANEL E1F - 20' x 59'-2"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 11/15/68

APPROVED FOR FABRICATION BY FOR FABRICATOR DATE

DETAILED BY A. CARL WEBER

DESIGN DRAWING NO. 7-AB3-11 7-22-68

DRAWN BY gdc DATE NOV. 1, 1968

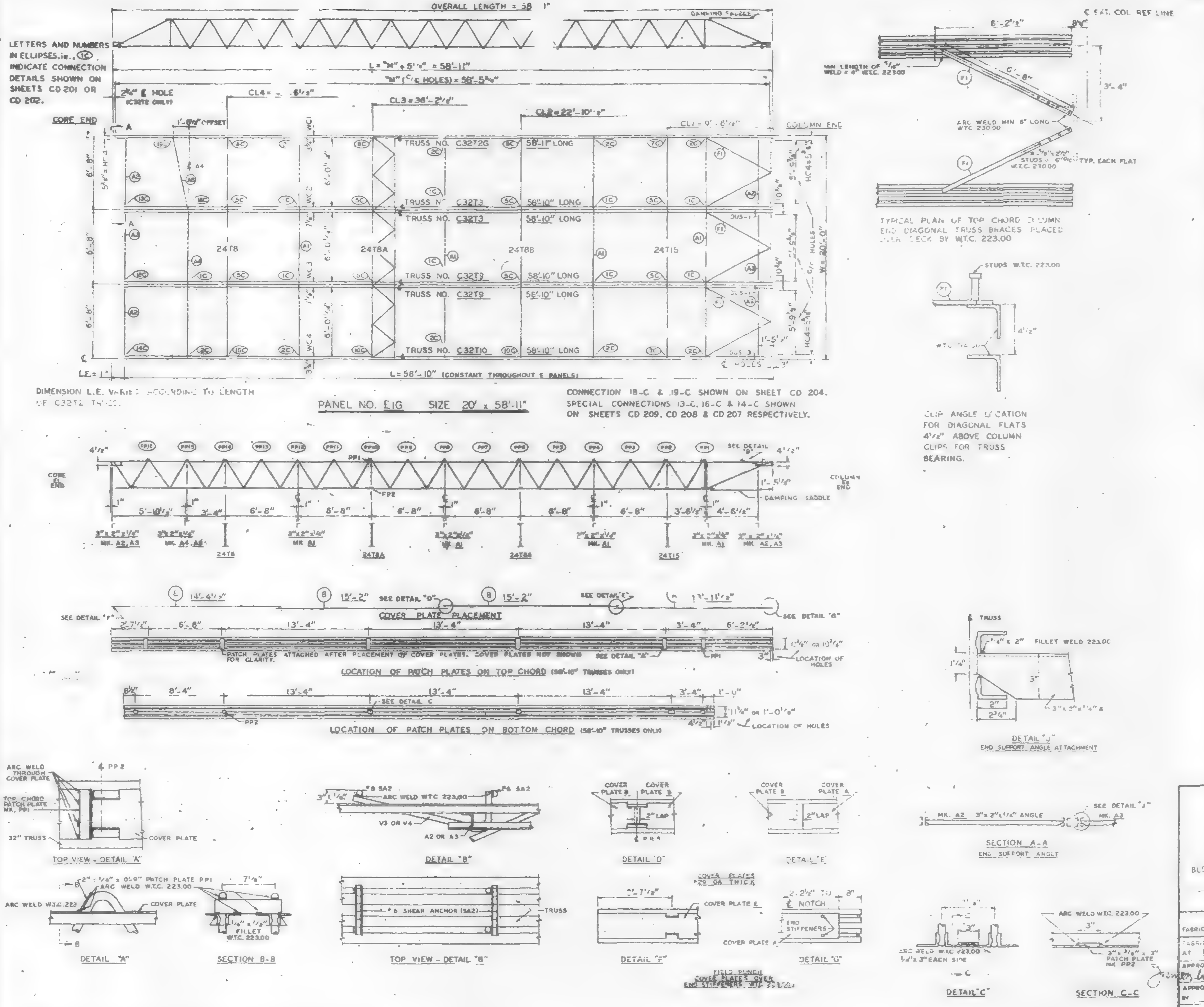
CHECKED BY TM CHURA DATE NOV. 6, 1968

FABRICATION CONT. NO. WTC 221

PLATE

IN CHARGE OF PROD. DEV.

SHEET NO. FP E1F



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T2G	1	C32T2G 58'-11"	ST 202G
	T3	2	C32T3 - 58'-[illegible]"	ST 203
	T9	2	C32T9 - [illegible]	ST 209
	T10	1	C32T10 58'-10"	ST 210
BRIDGING TRUSSES	T8	1	24T8 - 19'-11"	BT [illegible]
	T8A	1	[illegible] - 19'-11"	BT [illegible]
	T8B	1	24T8B - 19'-11"	BT [illegible]
	T15	1	24T15 - [illegible]	BT [illegible]
3" x 2" x 1/4" ANGLE	A1	4	3" x 2" x [illegible] x 19'-11"	ST 403
	A2	4	3" x 2" x 1/4" x 5'-[illegible]"	ST 403
	A3	2	3" x 2" x 1/4" x 5'-11[illegible]"	ST 403
	A4	1	[illegible] x 2" x 1/4" x [illegible] 3"	ST 40[illegible]
	A8	1	3" x 2" x 1/4" x 6'-6 3/8"	ST 405
DIAGONAL FLATS	F	6	1 1/2" x 3/8" x 6'-8"	ST 402
COVER PLATES	A	3	9" x .0135" x 13'-11 1/2"	ST 303
	B	8	9" x .0135" x 15'-2"	ST 303
	E	3	9" x .0135" x 14'-4 1/2"	ST 303
ANGLE CLIPS	C1	20	2" x 1 1/2" x 1/4" x 0'-6"	ST 400
	C2	4	2 1/2" x 1 1/2" x 1/4" x 6"	ST 400
DAMPING SADDLE	DUS-1	2	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
	DUS-3	1	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST 298
CONNECTION BAR	CB1	1	1" ϕ x 1'-3"	ST 400
	CB2	6	1 3/16" ϕ x 1'-3"	ST 400
	CB3	6	1 3/8" ϕ x 1'-5"	ST 400
CONNECTION PLATES	P1	5	3 1/2" x 3/8" x [illegible]	ST 400
	P2	1	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P5	3	4 1/2" x 1/4" x 1'-6"	ST 400
	P6	1	4 1/2" x .39" x 0'-9"	ST 401
#8 SHEAR ANCHOR	SA2	6	[illegible] REBAR x 0'-[illegible]"	ST 400
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400

(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.

(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE 1/4" x 1" FULL THROAT FILLET.

A = 1/4"
B = 1/2"

NO	DATE	REVISION	BY

REF. DRWGS.

7-AB2-3 & 10	7-22-68
7-AB3-11	7-22-68
7-AB4-3, 3.1	1-3-68
7-AB4-15 & 16, 39	7-22-68
7-AB4-42	10-15-68
SA-124	10-11-68
7-AB1-3	7-22-68
7-AB1-6, 7 & 8	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 39-40 (N&S)

PANEL E1G - 20' x 58'-11"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO 7-AB3-11 7-22-68

PLATE

APPROVED FOR FABRICATION FOR PONYA — DATE 11/15/68

DRAWN BY gdc DATE NOV. 1, 1968

APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE

CHECKED BY T.M. CHURA DATE NOV. 4, 1968

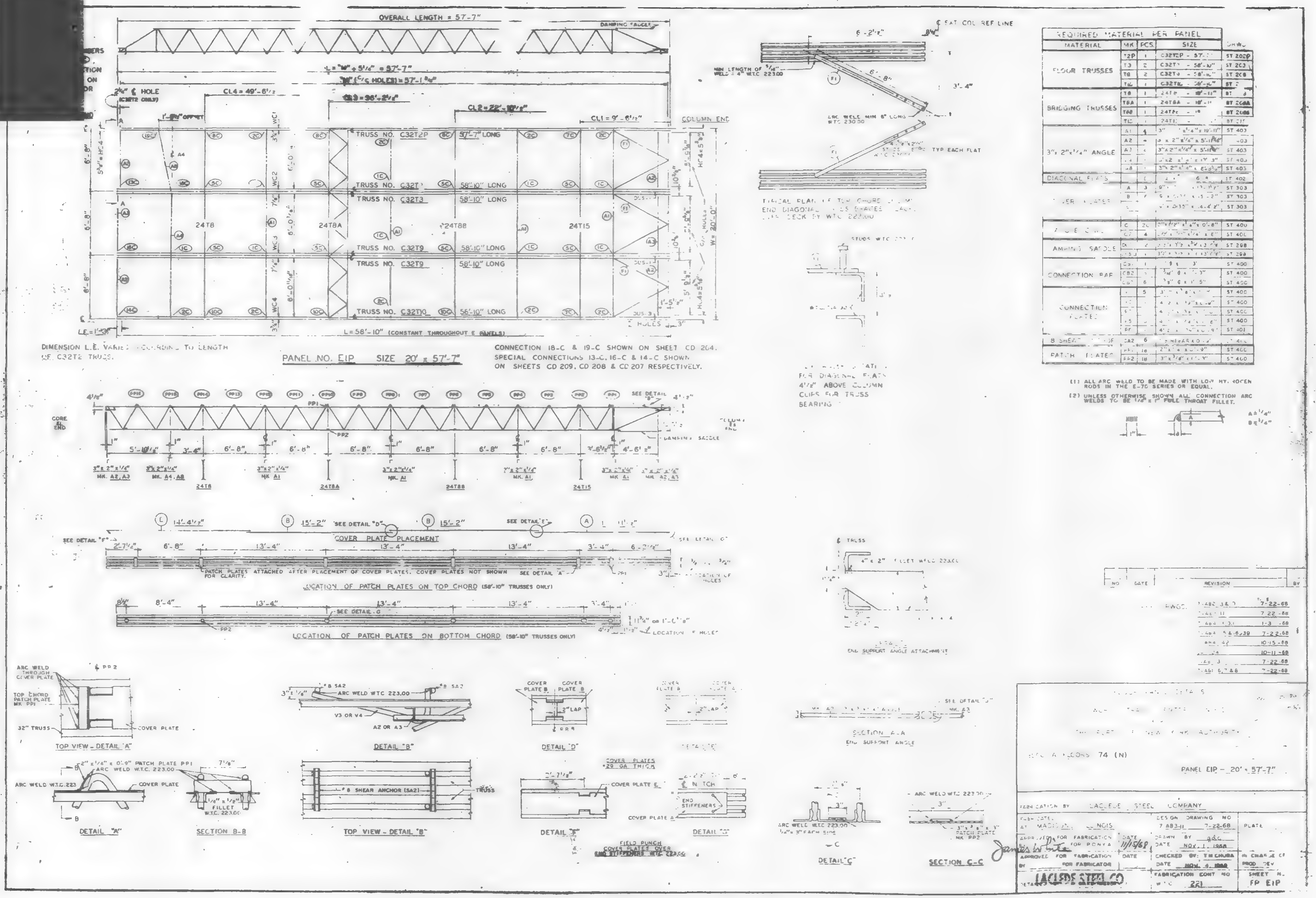
IN CHARGE OF PROD. DEV.

DETAILED BY [illegible] CARL WEBER

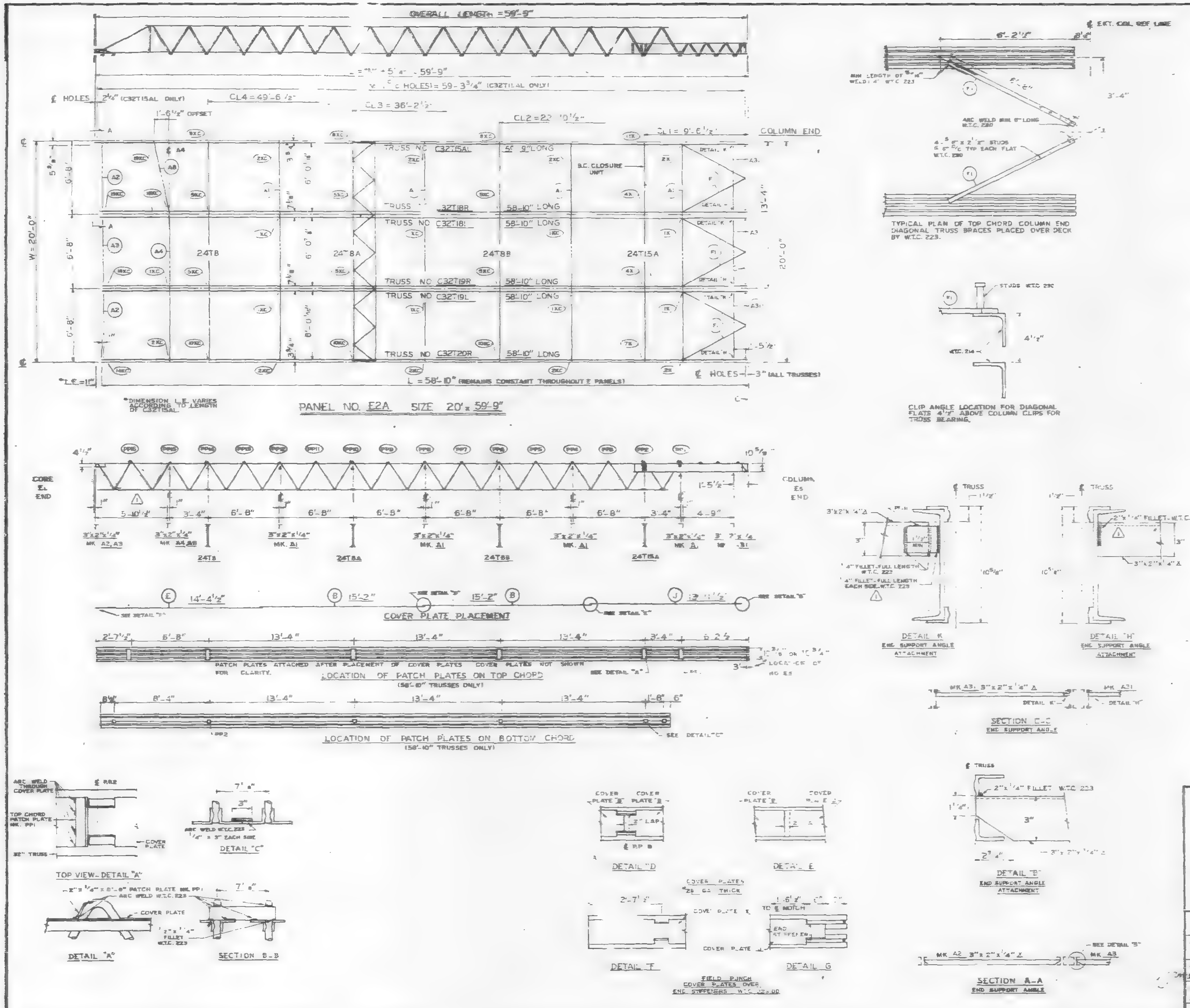
FABRICATION CONT NO W.T.C. 221

SHEET No. FP E1G

[redacted]



OVERALL LENGTH = 57'-7"
DAMPING SADDLE
CL4 = 49'-6 1/2"
CL2 = 22'-10 1/2"
CL1 = 9'-6 1/2"
COLUMN END
TRUSS NO. C32T2P 57'-7" LONG
TRUSS NO. C32T3 58'-10" LONG
TRUSS NO. C32T9 58'-10" LONG
TRUSS NO. C32T10 56'-10" LONG
24T8
24T8A
24T8B
24T15
L = 58'-10" (CONSTANT THROUGHOUT E PANELS)
DIMENSION L.E. VARIES ACCORDING TO LENGTH OF C32T2 TRUSS.
PANEL NO. EIP SIZE 20' x 57'-7"
CONNECTION 18-C & 19-C SHOWN ON SHEET CD 204.
SPECIAL CONNECTIONS 13-C, 16-C & 14-C SHOWN ON SHEETS CD 209, CD 208 & CD 207 RESPECTIVELY.
COVER PLATE PLACEMENT
PATCH PLATES ATTACHED AFTER PLACEMENT OF COVER PLATES. COVER PLATES NOT SHOWN FOR CLARITY.
LOCATION OF PATCH PLATES ON TOP CHORD (58'-10" TRUSSES ONLY)
LOCATION OF PATCH PLATES ON BOTTOM CHORD (58'-10" TRUSSES ONLY)
TOP VIEW - DETAIL "A"
DETAIL "B"
DETAIL "D"
DETAIL "A"
SECTION B-B
TOP VIEW - DETAIL "B"
DETAIL "F"
DETAIL "G"
DETAIL "C"
SECTION C-C
SECTION A-A
END SUPPORT ANGLE ATTACHMENT
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
REQUIRED MATERIAL PER PANEL
MATERIAL
MK
PCS
SIZE
FLOOR TRUSSES
BRIDGING TRUSSES
3" x 2" x 1/4" ANGLE
DIAGONAL PLATES
CONNECTION BAR
CONNECTION PLATES
PATCH PLATES
(1) ALL ARC WELD TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
(2) UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS TO BE 1/8" FULL THROAT FILLET.
REVISION
74 (N)
PANEL EIP - 20' x 57'-7"
FABRICATION BY LACLEDE STEEL COMPANY
AT MADISON, ILLINOIS
DESIGN DRAWING NO 7 AB3-11 7-22-68
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 11/15/68
DRAWN BY gdc
DATE NOV. 1, 1968
CHECKED BY: T.M.CHURA
DATE NOV. 4, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR
PLATE
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO
FABRICATION CONT NO W.T.C. 221
SHEET NO. FP EIP



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	[illegible]	1	C32T15AL x 58'-9"	ST 215AL
	[illegible]	1	C32T18L x 58'-10"	ST [illegible]
	[illegible]	1	C32T18R x 58'-10"	
	[illegible]	1	C32T19L x 58'-10"	
	T19R		C32T19R x 58'-10"	[illegible]
	T20R		C32T20R x 58'-10"	220
BRIDGING TRUSSES	TB	1	24TB x [illegible]	ST 208
	TBA	1	24T[illegible] x 19'-11"	ST 209
	TBB	1	24TBB x 19'-11"	ST 20[illegible]
	T15A		24T15A x 19'-11"	ST 215A
3"x 2"x 1/4" ANGLE	A1	4	3"x2"x1/4"x 19'-[illegible]	ST 403
	A2	2	3"x2"x1/4"x5'-[illegible]	ST 403
	A3	1	3"x2"x1/4"x5'-[illegible]	ST 403
	A4	1	3"x[illegible]1/4"x13'-3"	ST 403
	A8	1	3"x 2"x 1/4"x 6'-8 5/8"	ST 405
	A31	3	3"x 2"x 1/4"x5'-8 1/8"	ST 410
CLOSURE PLATES	PF-11	3	3"[illegible]4" x 0'-2 3/8"	ST 4[illegible]2
DIAGONAL FLATS	F1	6	2" x 5/8" x 6'-6"	ST 402
PATCH PLATES	PP1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	E	3	9" x .0135" x 14'-4 1/2"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
B.C. CLOSURE UNIT	B.C.	1	1 1/4" D x 6'-6 1/2"	ST 215A
ANGLE CLIPS	C1	20	2"x 1 1/2"x.25"x 6"	ST 400
	C2	4	2 1/2"x 1 1/2"x.25"x 6"	ST 400
#8 SHEAR ANCHOR	SA2	8	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	2	1" Ø x 1'-3"	ST 400
	CB2	6	1 3/8" Ø x 1'-3"	ST 400
	CB3	6	1 5/8" Ø x 1'-5"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	1	4 1/2" x .39" x 0'-9"	ST 400
	P3	1	4 1/2" x .39" x 1'-0"	ST 400
	P5	3	4 1/2" x 1/4" x 1'-6"	ST 400
	P6	1	4 1/2" x .39" x 0'-9"	ST 401
	P9	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, ie.. (1K)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 92 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x 1/4" FULL THROAT FILLET.

NO.	DATE	REVISION	BY
1	2-4-69	AS NOTED	G.D.C.

REF DRWG.

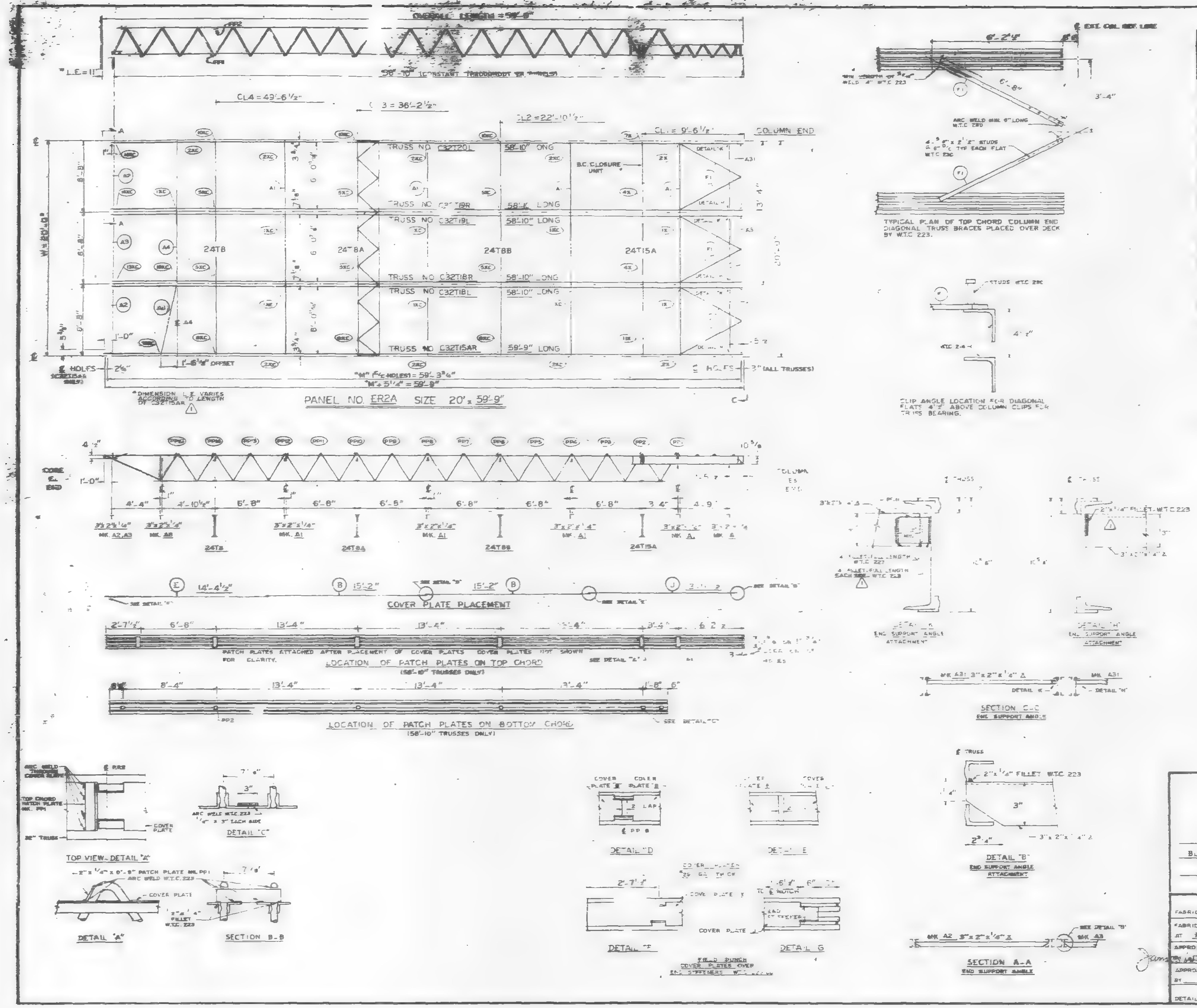
7-AB3-32	10-4-68
7-AB3-24	8-15-68
7-AB1-14, 17, 18 & 19	10-4-68
7-AB2-3	7-22-68
7-AB2-14	10-4-68
SA-124	10-11-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)

PANEL E2A - 20' x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY.
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-32 PLATE
APPROVED FOR FABRICATION BY [signature] FOR P.O.N.Y.A. DATE 2/28/69
DRAWN BY [initials] DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE
CHECKED BY T.N. CHURA DATE DEC. 5, 1968
IN CHARGE OF PROJ. DEN
DETAILED BY A.C. WEBER
FABRICATION CONT. NO W.T.C. 221
SHEET NO FP E2A



REQUIRED MATERIAL PER PANEL				REF. DWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	[illegible]	[illegible]	[illegible]	ST 208L
	[illegible]	[illegible]	[illegible]	ST 208
	[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]	
	T18R	[illegible]	C32T18R x 58'-10"	ST [illegible]
	T20L		C32T20L x 58'-10"	ST [illegible]
BRIDGING TRUSSES	T8	1	24T8 x 18'-[illegible]"	ST 208
	T8A	1	24T8A x 18'-11"	ST 208A
	T8B	1	24T8B x 18'-11"	ST 208B
	T15A	1	24T15A x 18'-11"	ST 215A
3" x 2" x 1/4" ANGLE	A1	4	3"x2"x1/4"x 18'-11"	ST 403
	A2	2	3"x2"x1/4"x5-[illegible]	ST 403
	A3	1	3"x2"x1/4"x5-[illegible]	ST 403
	A4		3"x2"x1/4"x13'-3"	ST 403
	A8		3"x2"x1/4"x6'-8 5/8"	ST 405
	A31	3	3"x2"x1/4"x5-8 [illegible]"	ST 410
CLOSURE PLATES	PF-1	3	3" x [illegible] x 0'-2 3/8"	ST 4[illegible]2
DIAGONAL FLATS	F1	6	[illegible] x 5/8" x 6'-8"	ST 402
PATCH PLATES	P1	18	2" x 1/4" x 0'-9"	ST 400
	PP2	18	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	B	6	9" x .0135" x 15'-2"	ST 303
	E	3	9" x .0135" x 14'-4 1/2"	ST 303
	J	3	9" x .0135" x 13'-11 1/2"	ST 304
B.C. CLOSURE UNIT	B.C.	1	1'-4" D x 5'-6 1/2"	ST 215A
ANGLE CLIPS	C1	20	2" x 1 1/2" x .25" x 6"	ST 400
	C2	4	2 1/2" x 1 1/2" x .25" x 6"	ST 400
#8 SHEAR ANCHOR	SA2	6	#8 REBAR x 0'-9"	ST 400
CONNECTION BAR	CB1	2	1" Ø x 1'-3"	ST 400
	CB2	5	1 3/8" Ø x 1'-3"	ST 400
	CB3	6	1 3/8" Ø x 1'-5"	ST 400
CONNECTION PLATES	P1	4	3 1/2" x 3/8" x 6 1/2"	ST 400
	P2	1	4 1/2" x .38" x 0'-9"	ST 400
	P3	1	4 1/2" x .38" x 1'-0"	ST 400
	P5	2	4 1/2" x 1/4" x 1'-6"	ST 400
	P6	1	4 1/2" x .39" x 0'-9"	ST 401
	P8	6	3" x 1/2" x 1'-2"	ST 409

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS, i.e. (BK)
ALL CONNECTION DETAILS FOR FLOORS 25, 59 & 82 ARE SHOWN ON SHEETS CD 210 THRU CD 229.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1" x 1/4" FULL THROAT FILLET.

A = 1/4"
B = 1/4"

NO.	DATE	REVISION	
1	2-4-69	AS NOTED	[illegible]

REF. DRWG.

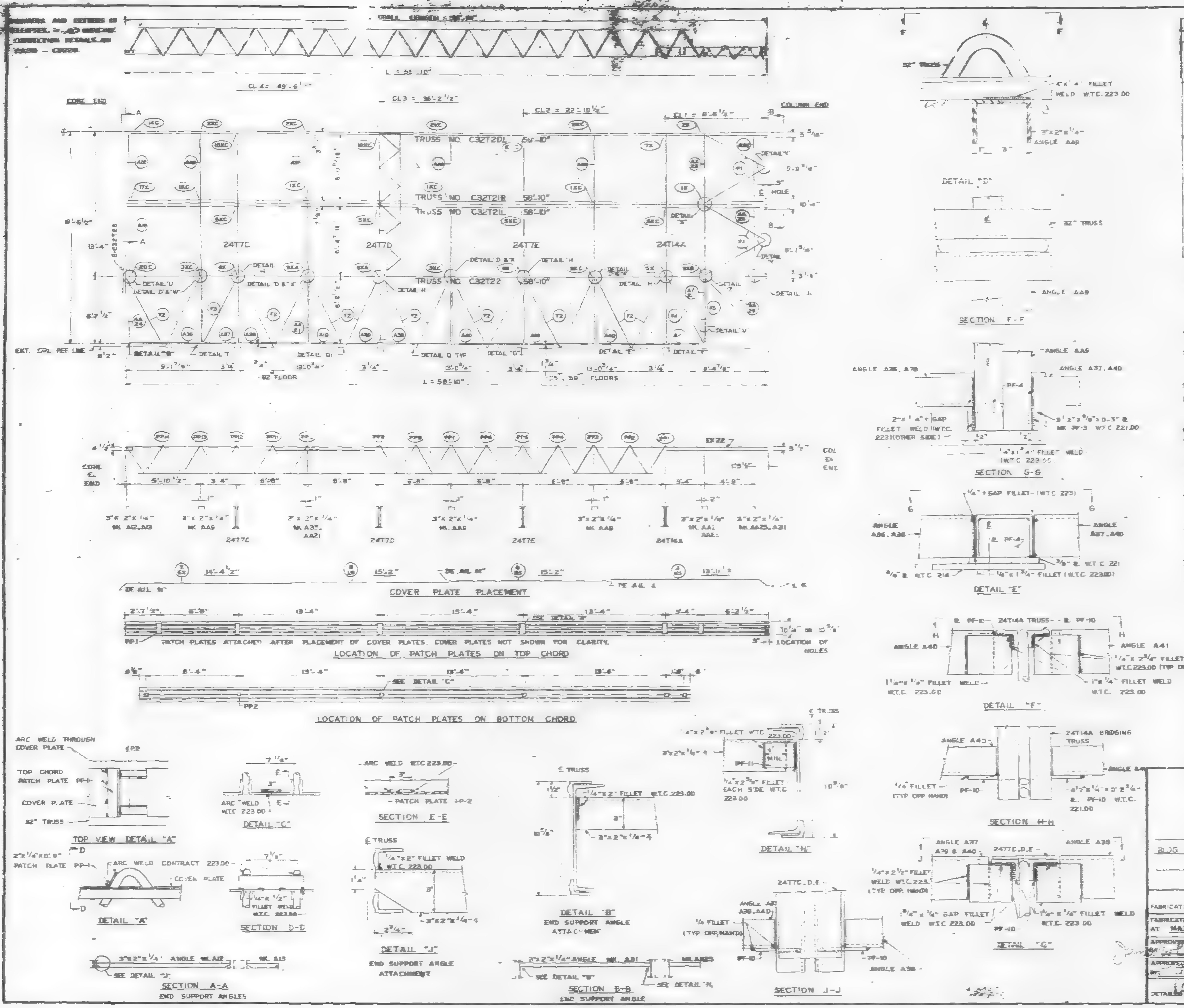
7-A83-33	10-4-68
7-A83-24	8-15-68
7-A81-14, 17, 18 & 19	10-4-68
7-A82-3	7-22-68
7-A82-14	10-4-68
SA-124	10-11-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 25 (NORTH & SOUTH) 59 (NORTH)

PANEL ER2A - 20' x 59'-9"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-33
PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. — DATE 2/[illegible]/69
DRAWN BY [illegible] — DATE DEC. 5, 1968
APPROVED FOR FABRICATION BY LACLEDE STEEL CO. — DATE
CHECKED BY [illegible] — DATE DEC. 5, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY [illegible]
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP ER2A



REQUIRED MATERIAL PER PANEL				SEE
MATERIAL	MK.	PCS	SIZE	DRWG.
FLOOR TRUSSES	2DL	1	C32T2DL-58'-10"	ST2[illegible]
	21R	1	C32T21R-58'-10"	ST221
	21L	1	C32T21L-58'-10"	
	22	1	C32T22-58'-10"	ST[illegible]
BRIDGING TRUSSES	T7C	1	24T7C - 19'-6"	ST207C
	T7D	1	24T7D -	ST207D
	T7E	1	24T7E 19'-6"	ST207E
	T14A	1	24T14A - 19'-6"	ST214A
3"x 2"x 1/4" ANGLES	A10	1	3"x2"x1/4"x2'-7 5/16"	ST404
	A12	1	3"x2"x1/4"x5'-11"	ST404
	A13	1	3"x2"x1/4"x5'-[illegible]	ST404
	A31	1	3"x2"x1/4"x5'-8 1/8"	ST410
	A36	1	3"x2"x1/4"x5'-8 1/2"	ST410
	A37	1	3"x2"x1/4"x 2'-10"	ST410
	A38	3	3"x2"x1/4"x 6'-4"	ST410
	A39	1	3"x2"x1/4"x 2'-8"	ST410
	A40	2	3"x2"x1/4"x 6'-2"	ST410
	A41	1	3"x2"x1/4"x 2'-10 3/4"	ST410
	A35	1	3"x2"x1/4"x 13'-3"	ST410
ANGLE ASSEMBLY	AA21	1	SEE REF. DRWG.	ST411
	AA22	1	SEE REF. DRWG.	ST411
	AA23	1	SEE REF. DRWG.	ST411
	AA24	1	SEE REF. DRWG.	ST412
	AA25	1	SEE REF. DRWG.	ST412
	AA26	1	SEE REF. DRWG.	ST412
	AA9	3	SEE REF. DRWG.	ST404
PATCH PLATES	PP1	6	2"x1/4"x 0'-9"	ST400
	PP2	6	3"x3/8"x 0'-3"	ST400
COVER PLATES	A	1	9"x 0.135"x 8'-11 1/2"	ST303
	As	1	3 1/2"x 0.135"x 13'-11 1/2"	ST304
	B	2	9"x 0.135"x 15'-2	ST303
	Bs	1	3 1/2"x 0.135"x 15'-2"	ST303
	Ls	1	3 1/2"x 0.135"x 15'-2"	ST304
	E	1	9"x 0.135"x 14'-4 1/2"	ST303
	Es	1	3 1/2"x 0.135"x 14'-4 1/2"	ST303
ANGLE CLIPS	C2	16	2 1/2"x 1 1/2"x 1/4"x0'-6"	ST400
DIAGONAL FLATS	F1	4	1 1/2"x 3/8"x 6'-8"	ST402
	F2 / F2R	7 / 7	1 1/2"x 5/8"x 6'-10 1/2"	ST402
	F3	1	1 1/2"x 5/8"x 6'-11 1/4"	ST402
	F4	1	1 1/2"x 5/8"x 7'-0"	ST402
	F5	1	1 1/2"x 5/8"x 4'-4"	ST402
MISC. PLATES	PF-1	2	1 1/2"x 1/2"x 0'-4"	ST409
	PF-3	5	3 1/2"x 3/8"x 0'-5"	ST400
	PF-7	1	5"x 3/8"x 0'-4"	ST401
	PF-8	5	3 1/2"x 1/4"x 0'-2 7/8"	ST401
	PF-10	8	4 1/2"x 1/4"x 0'-2 3/4"	ST401
	PF-11	1	3"x 1/4"x 0'-2 3/4"	ST412
EXTENDED END	EX	1	SEE REF. DRWG.	ST222
	22			

NO.	DATE	REVISION	BY
1	2-5-69	GENERAL	[illegible]

SEE SHEET FP-F2-2 FOR NOTES, REF. DRWG & ADDITIONAL DETAILS

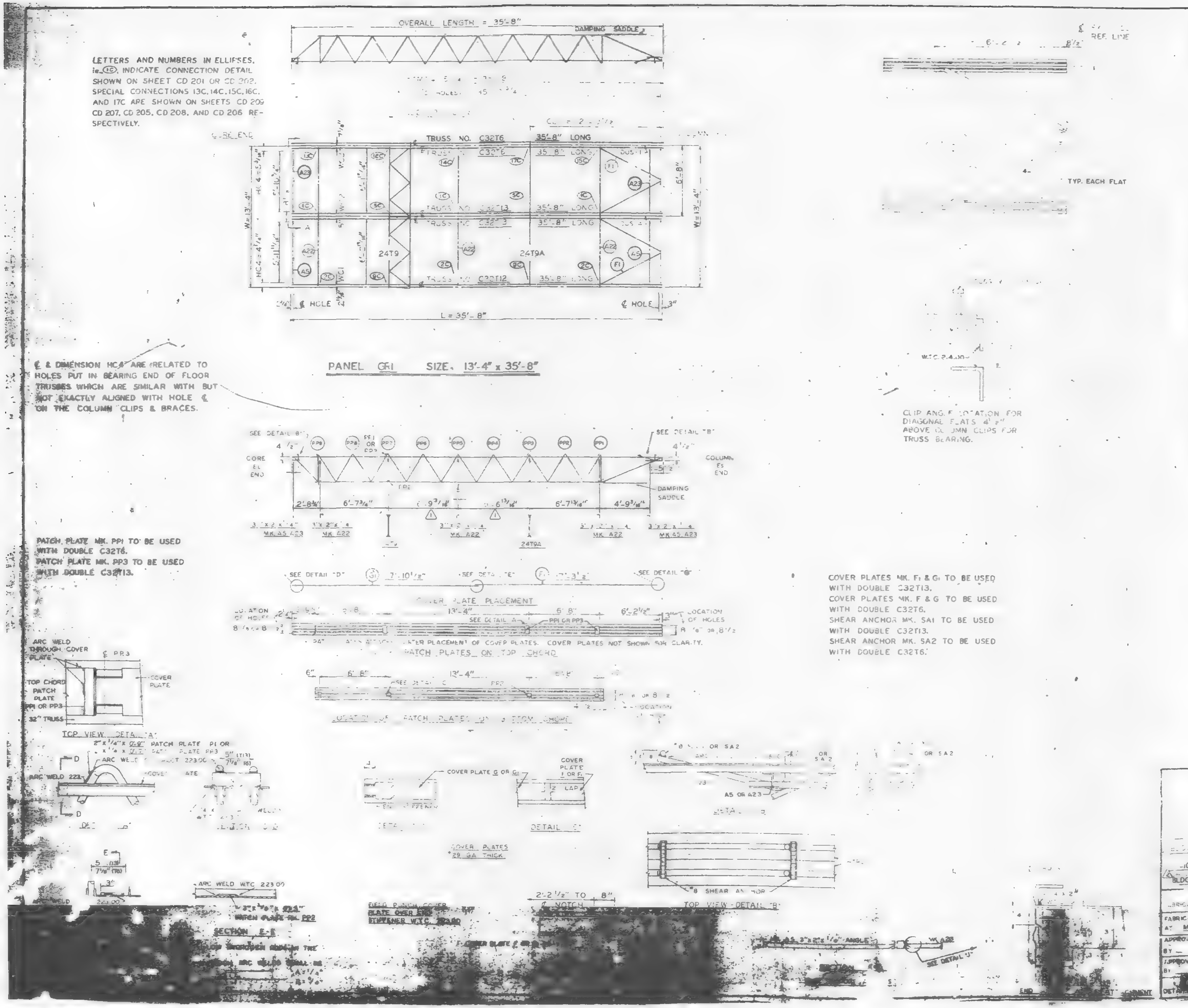
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 25, 59 & 92 (NORTH & SOUTH)

PANEL F2 19'-6" x 58'-10"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-A83-34	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. — DATE [illegible]	DRAWN BY: [illegible] DATE DEC. 3, 1968	
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR — DATE	CHECKED BY: T.M.CHURA DATE DEC. 4, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY LACLEDE STEEL CO	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-F2

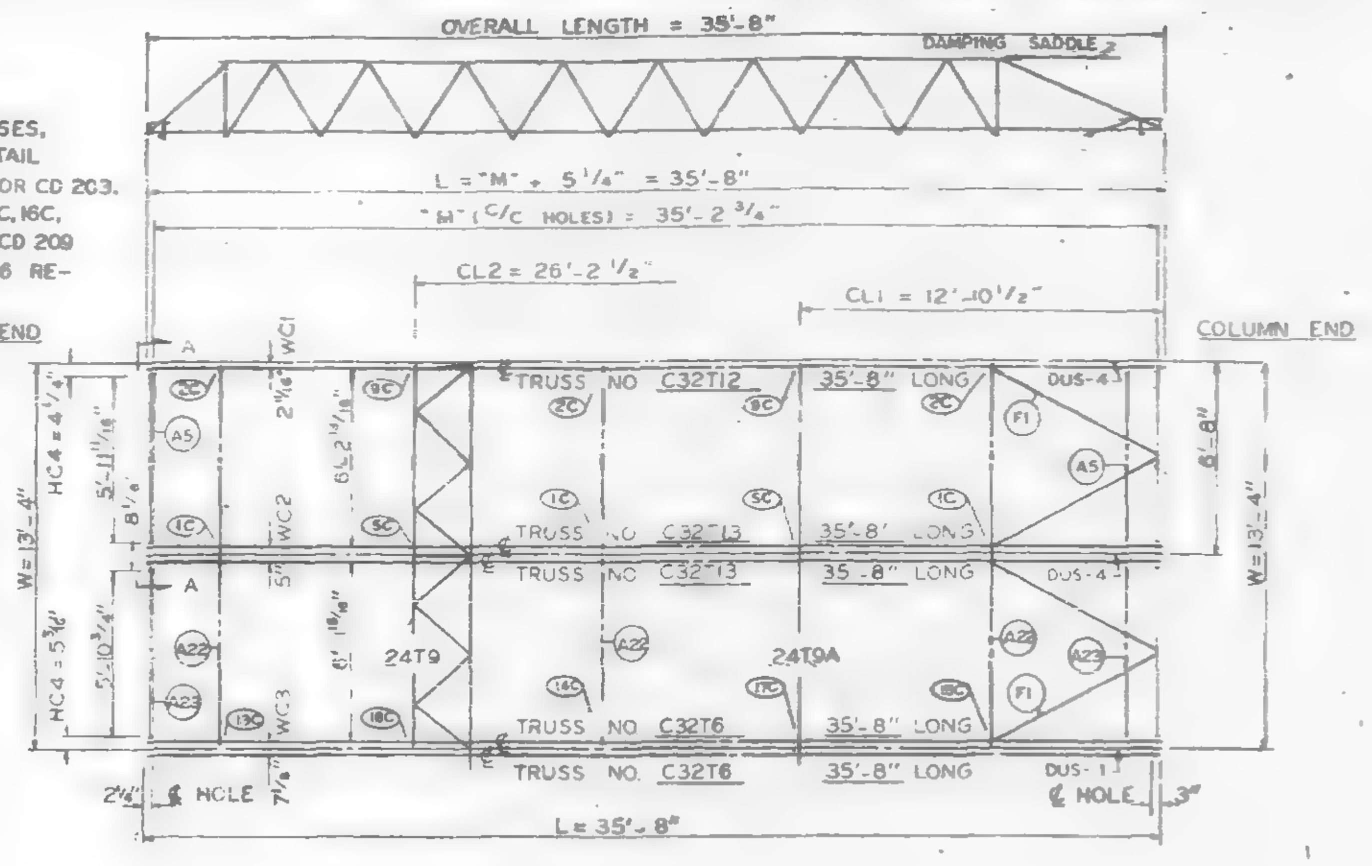


REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
	T6	2	C32T6 35'-8"	ST 208
	T12	1	C32T12 - 35'-8"	ST 212
	T13	2	C32T13 - 35'-8"	ST 213
	T9	1	24T9 - 13'-2¾"	ST 209
	T9A	1	24T9A - 13'-2¾"	ST 209A
	A5	2	[illegible] x 6'-[illegible]¹³⁄₁₆"	ST 403
	A22	3	[illegible] x 13'-3½"	ST 405
	A23	2	[illegible] x 6'-0⅞"	ST 405
	[illegible]	4	[illegible] x 6'-8"	ST 402
	PP1	4	2 x [illegible] x 0'-9"	ST 400
	PP2	8	3' x [illegible] x [illegible]-3"	ST 400
	PP3	4	2' x [illegible] x 0'-7"	ST 400
			[illegible] 2"	ST 303
	F		[illegible] x .0135" x 7'-3½"	ST 303
	G		9" x .0135" x 17'-10½"	ST 303
	F	1	9" x .0135" x 17'-3½"	ST 303
	C1 ← Up to F1 33 Tower A			
	(2) C1	5*	2" x 1½" x ¼" x 6"	ST 400 ← F1 34 up
	SA1	3	#8 REBAR x 0'-7"	ST 400
	SA2	3	#8 REBAR x 0'-9"	ST 400
	[illegible]		[illegible] x 3 6⅞"	ST 298
	DUS-1	1	3½" x 3½" x ⅜" x 3-6⅞"	ST 298
CONNECTION PLATES				
SPECIAL CONNECTION UNITS	13C	1	SEE REF. DRWG.	ST 274
	14C	1	SEE REF. DRWG.	ST 272
	15C	1	SEE REF. DRWG.	ST 270
	16C	1	SEE REF. DRWG.	ST 273
	17C	1	SEE REF. DRWG.	ST 271

(2) * CHANGE BECOMES EFFECTIVE AFTER 33RD FLOOR, TOWER A.

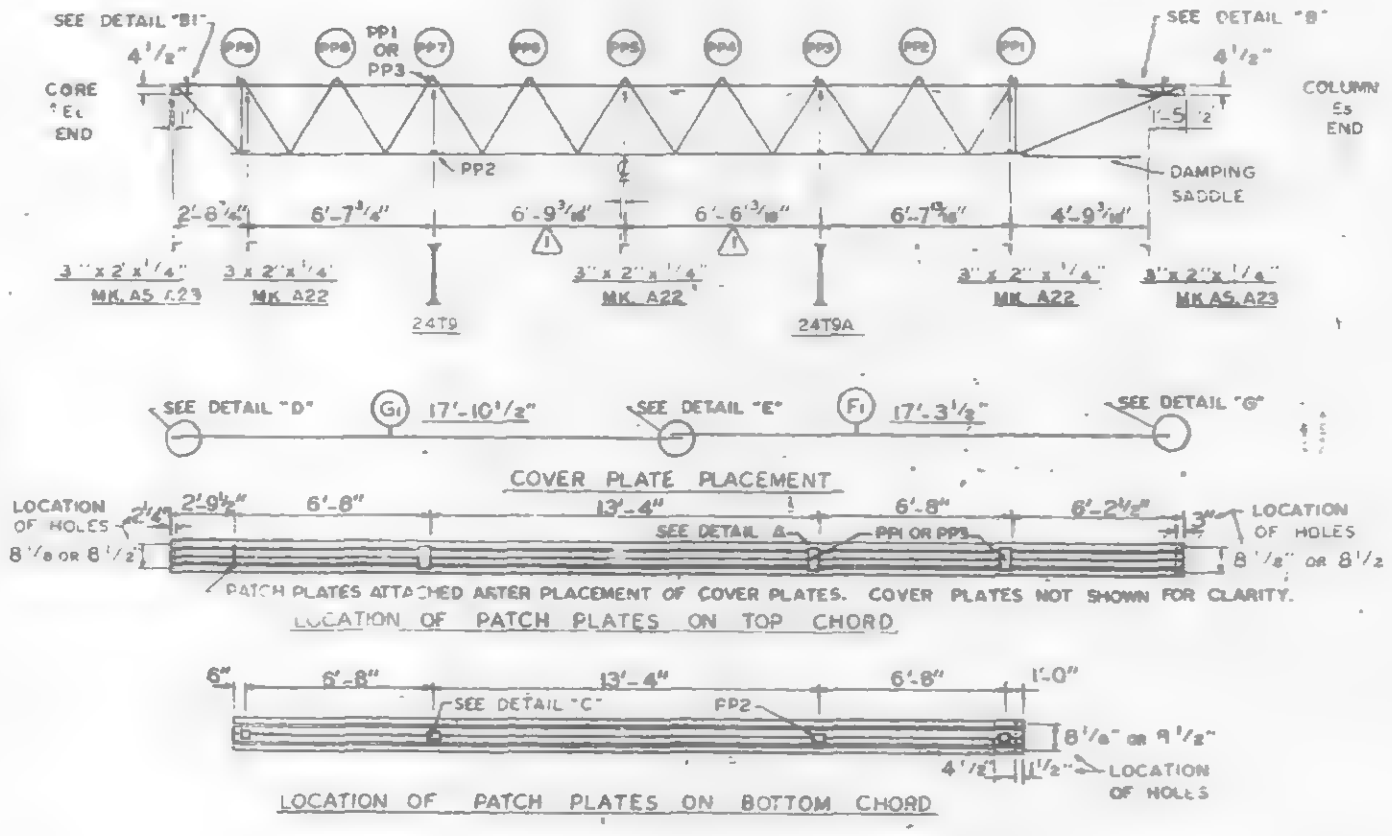
NO.	DATE	REVISION	BY
2	4-18-69	AS NOTED	G.D.C.
1	2-21-69	AS NOTED	G.D.C.

LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAIL SHOWN ON SHEET CD 201, CD202 OR CD 203. SPECIAL CONNECTIONS 13C, 14C, 15C, 16C, AND 17C ARE SHOWN ON SHEETS CD 209 CD 207, CD 205, CD 208, AND CD 206 RESPECTIVELY.

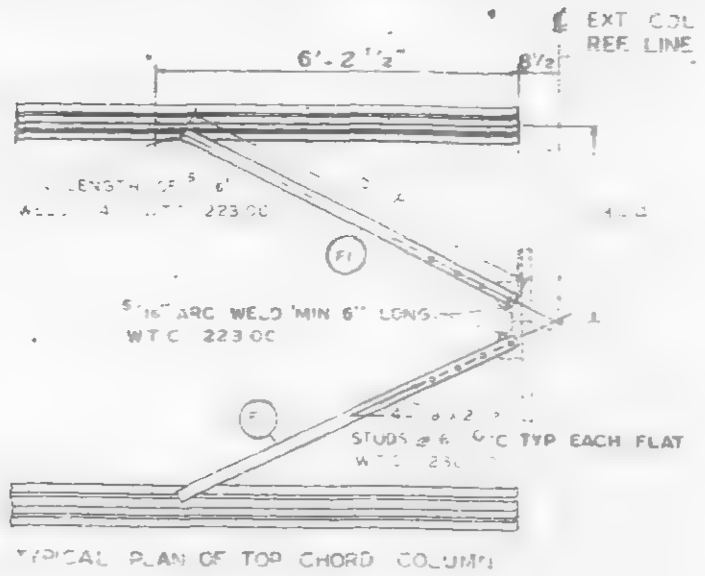


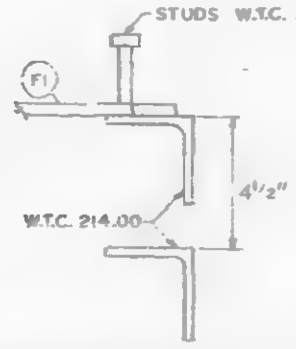
PANEL G1 SIZE 13'-4" x 35'-8"

& DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.



PATCH PLATE MK. PP1 TO BE USED WITH DOUBLE C32T6.
PATCH PLATE MK. PP3 TO BE USED WITH DOUBLE C32T13.





CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

REQUIRED MATERIAL PER PANEL				REF. DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T6	2	C32T6 - 35'-8"	ST 206
	T12	1	C32T12 - 35'-8"	ST 212
	T13	2	C32T13 - 35'-8"	ST 213
BRIDGING TRUSSES	T9	1	24T9 - 13'-2 3/4"	ST 209
	T9A	1	24T9A - 13'-2 3/4"	ST 209A
3"x2"x1/4" ANGLE	A5	2	3"x2"x1/4"x8'-1 3/4"	ST 403
	A22	3	3"x2"x1/4"x13'-3 1/2"	ST 405
	A23	2	3"x2"x1/4"x6'-0 7/8"	ST 405
DIAGONAL FLATS	F	4	1 1/2"x5/8"x 6'-8"	ST 402
PATCH PLATES	PP1	4	2"x1/4"x 0'-9"	ST 400
	PP2	8	3"x3/8"x 0'-3"	ST 400
	PP3	4	2"x1/4"x 0'-7"	ST 400
COVER PLATES	G1	1	7"x.0135"x17'-10 1/2"	ST 303
	F1	1	7"x.0135"x17'-3 1/2"	ST 303
	G	1	9"x.0135"x17'-10 1/2"	ST 303
	F	1	9"x.0135"x17'-3 1/2"	ST 303
ANGLE CLIPS				ST 400
	C1	8*	2"x1 1/2"x1/4"x 6"	ST 400
#8 SHEAR ANCHOR	SA1	3	#8 REBAR x 0'-7"	ST 400
	SA2	3	#8 REBAR x 0'-9"	ST 400
DAMPING SADDLE	DUS-4	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST 298
	DUS-1	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST 298
CONNECTION PLATES				
SPECIAL CONNECTION UNITS	13C	1	SEE REF. DRWG.	ST 274
	14C	1	SEE REF. DRWG.	ST 272
	15C	1	SEE REF. DRWG.	ST 270
	16C	1	SEE REF. DRWG.	ST 273
	17C	1	SEE REF. DRWG.	ST 271

(2) *CHANGE BECOMES EFFECTIVE AFTER FLOOR 33, TOWER A.

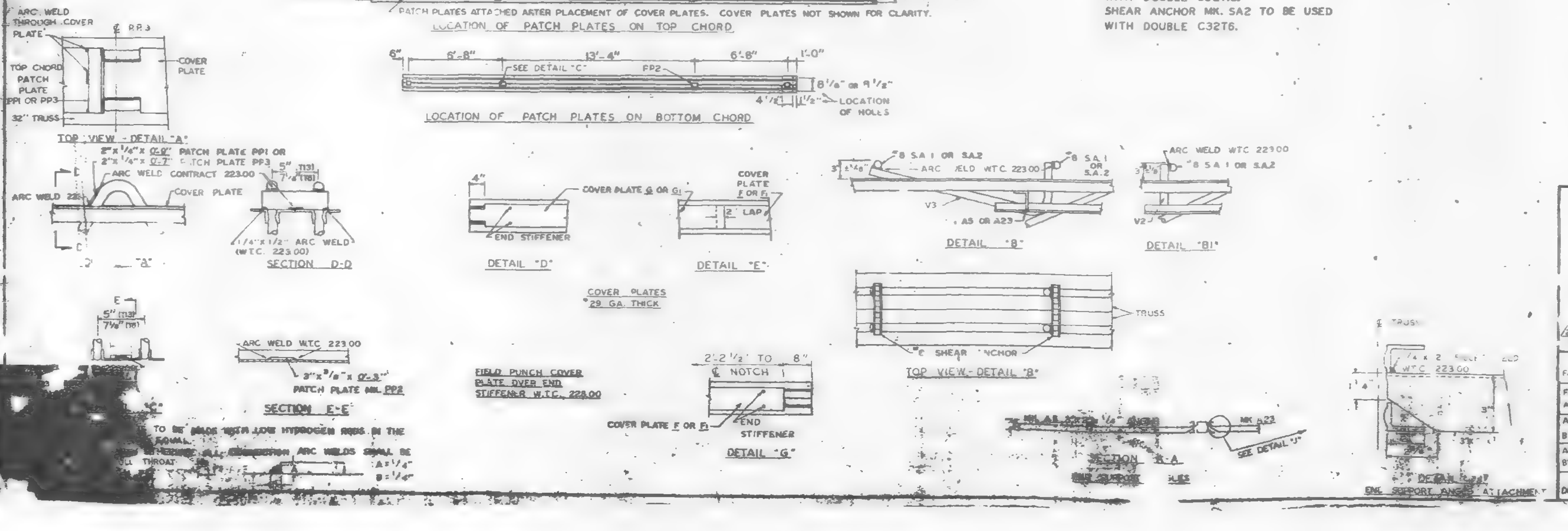
Fl. 33 down
Fl 33 up

COVER PLATES MK. F1 & G1 TO BE USED WITH DOUBLE C32T13.
COVER PLATES MK. F & G TO BE USED WITH DOUBLE C32T6.
SHEAR ANCHOR MK. SA1 TO BE USED WITH DOUBLE C32T13.
SHEAR ANCHOR MK. SA2 TO BE USED WITH DOUBLE C32T6.

NO.	DATE	REVISION	BY
(2)	4-18-69	AS NOTED	G.D.C.
(1)	2-21-69	AS NOTED	G.D.C.

REF DRWG	
7-AB4-3 & 3.1	1-3-68
7-AB4-15 & 16	5-6-68
7-AB4-39-41	1-3-68
SA-124	10-20-67
7-AB3-2	1-3-68
7-AB1-11 & 12	5-10-68
7-AB2-6	2-15-68
7-AB4-42	4-1-68

SKILLING - HELLE CHRISTIANSEN - ROBERTSON Structural & Civil Engineers
APPROVED / APPROVED AS NOTED / RESUBMIT / REJECTED
Date 5/15/69 SK



FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-24, 26-40, 50-58, 60-66, 68-74, 84-91 & 93-106 (E & W) 45-49 (W) 80-83 (E) PANEL G1 - 13'-4" x 35'-8"
(2) BLDG. B FLOORS 14-24, 26-40, 50-58, 60-74, 84-91, 93-106 (N & S) 80-83 (N) 45-49 (S)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-15 5-10-68	PLATE
APPROVED, FOR FABRICATION BY ______ FOR P.O.N.Y.A.	DATE	DRAWN BY G.C. DATE APRIL 10, 1968	
APPROVED FOR FABRICATION BY LACLEDE STEEL CO.	DATE	CHECKED BY T.M.CHUNG DATE APRIL 10, 1968	
DETAILED BY		FABRICATION CONT. NO. W.T.C. 221	

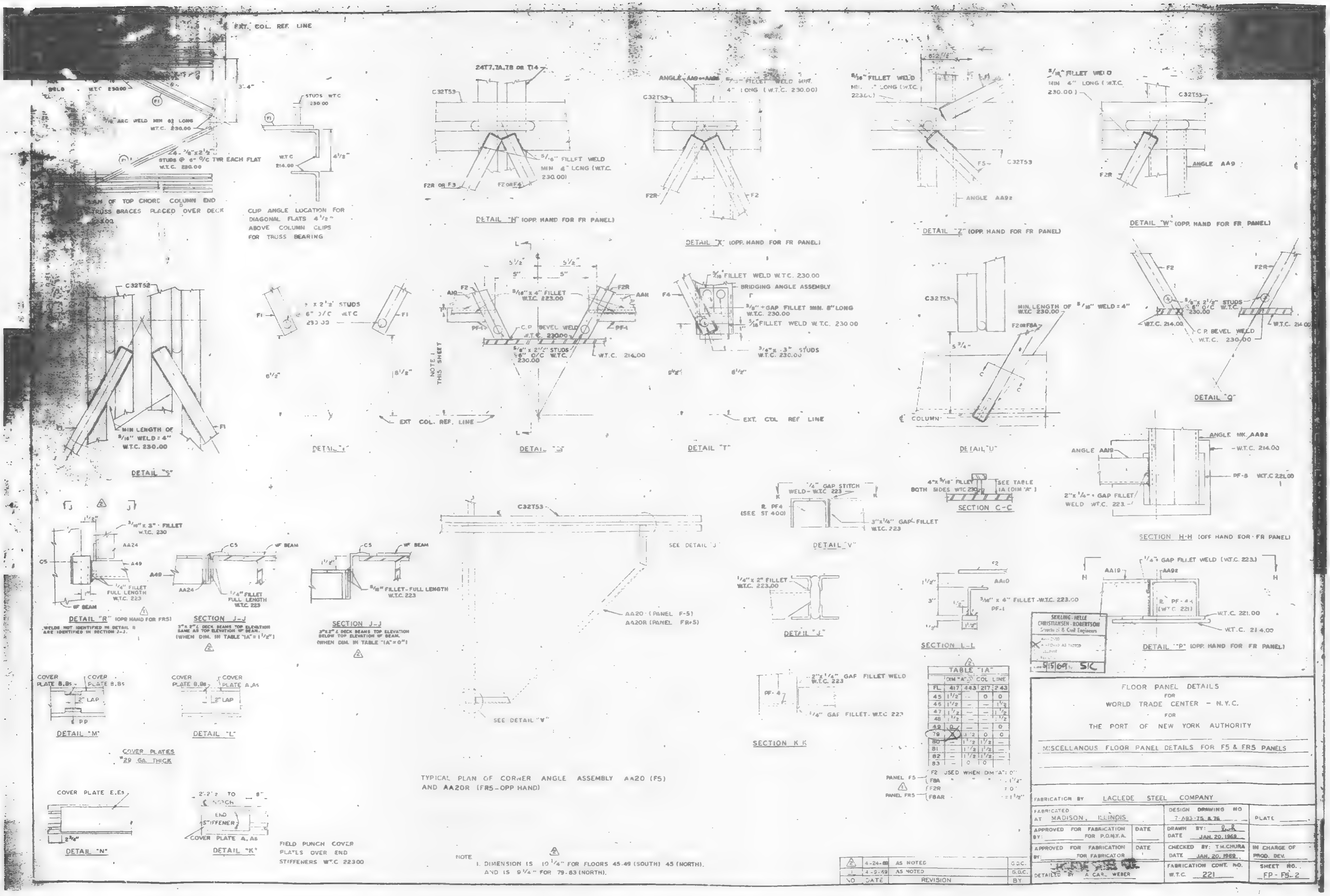


TABLE "1A"				
	DIM "A" @ COL LINE			
FL	417	443	217	243
45	1 1/2	--	0	0
46	1 1/2	—	—	1 1/2
47	1 1/2	—	—	1 1/2
48	1 1/2	—	—	1 1/2
49	0	—	—	0
79		1 1/2	0	0
80	—	1 1/2	1 1/2	—
81	—	1 1/2	1 1/2	—
82	—	1 1/2	1 1/2	—
83	—	0	0	

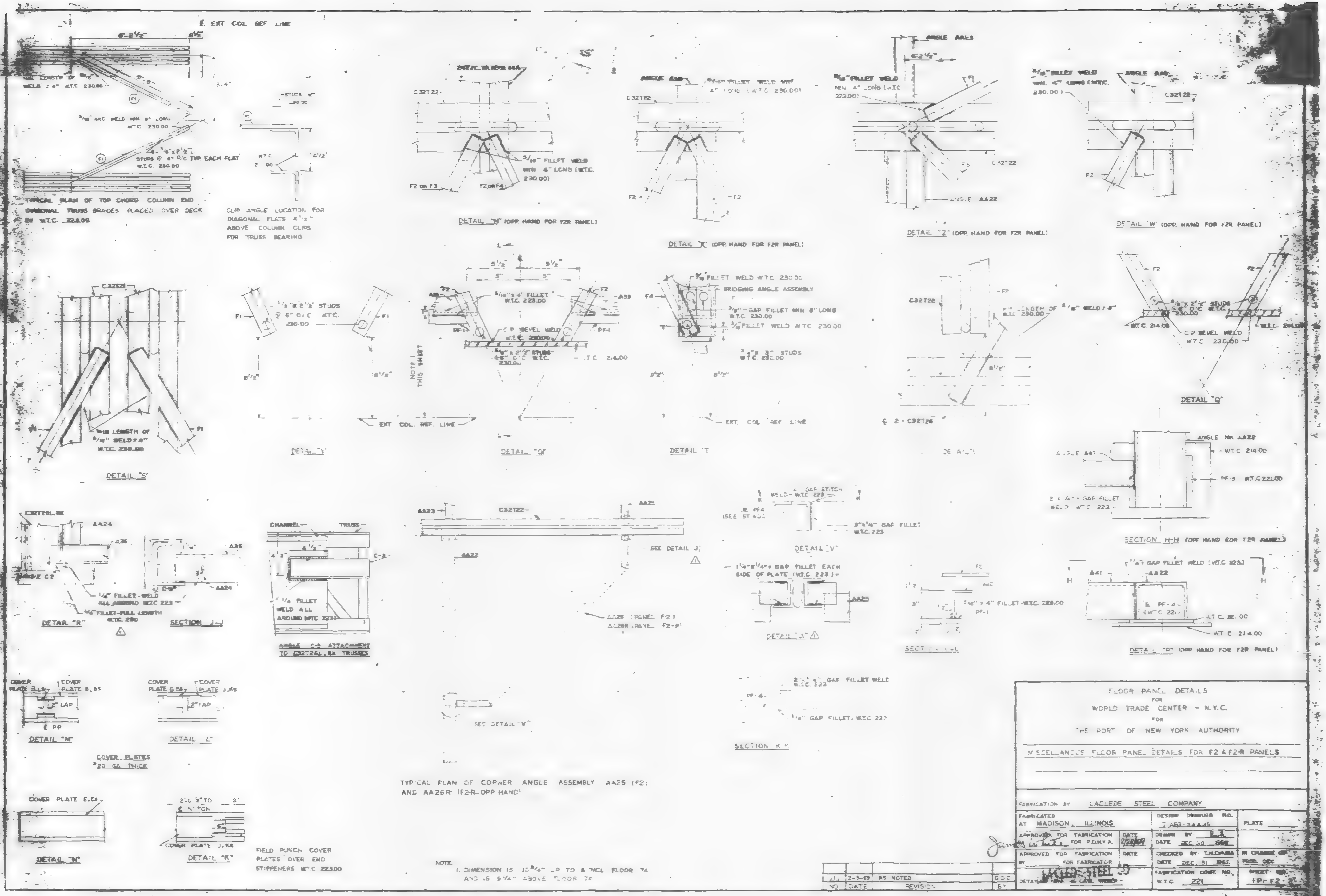
PANEL F5 — F2 USED WHEN DIM "A" = 0"
F8A " " " = 1 1/2"
PANEL FR5 — F2R = 0"
F8AR = 1 1/2"

NO	DATE	REVISION	BY
2	4-24-69	AS NOTED	G.D.C.
1	4-9-69	AS NOTED	G.D.C.

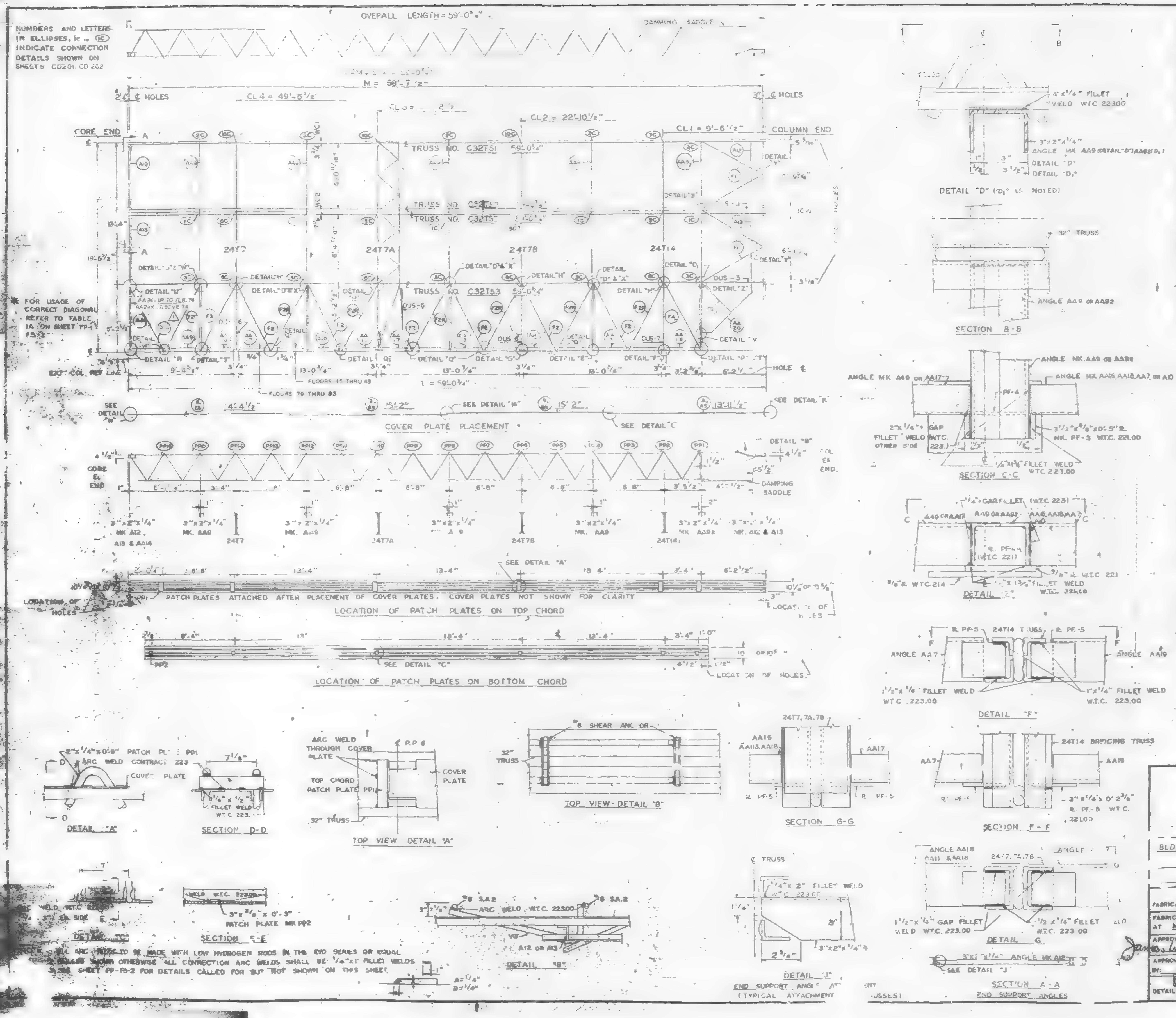
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

MISCELLANOUS FLOOR PANEL DETAILS FOR F5 & FR5 PANELS

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB3-75 & 76
PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A. DATE
DRAWN BY: [signature] DATE JAN. 20, 1969
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE
CHECKED BY: T.H. CHURA DATE JAN. 20, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A. CARL WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-F5-2



℄ EXT COL REF LINE
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING
DETAIL "N" (OPP HAND FOR F2R PANEL)
DETAIL "X" (OPP HAND FOR F2R PANEL)
DETAIL "Z" (OPP HAND FOR F2R PANEL)
DETAIL "W" (OPP HAND FOR F2R PANEL)
DETAIL "S"
DETAIL "Q"
EXT COL REF LINE
SECTION H-H (OPP HAND FOR F2R PANEL)
DETAIL "R"
SECTION J-J
ANGLE C-3 ATTACHMENT TO C32T26L,8X TRUSSES
DETAIL "V"
DETAIL "P" (OPP HAND FOR F2R PANEL)
DETAIL "M"
DETAIL "L"
COVER PLATES #20 GA. THICK
SEE DETAIL "W"
SECTION K-K
TYPICAL PLAN OF CORNER ANGLE ASSEMBLY AA26 (F2) AND AA26R (F2-R OPP HAND)
DETAIL "N"
DETAIL "K"
FIELD PUNCH COVER PLATES OVER END STIFFENERS W.T.C. 223.00
NOTE
1. DIMENSION IS 10 5/8" UP TO & INCL FLOOR 74 AND IS 6 1/4" ABOVE FLOOR 74
1 2-5-69 AS NOTED G.D.C.
NO DATE REVISION BY
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
MISCELLANEOUS FLOOR PANEL DETAILS FOR F2 & F2-R PANELS
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO.
PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A.
DRAWN BY
DATE DEC. 30 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR
DATE
CHECKED BY T.M.CHABA
DATE DEC. 31 1968
IN CHARGE OF PROD. DEPT.
DETAILED BY
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-F2-2



REQUIRED MATERIAL PER PANEL				REF
MATERIAL	MK	PCS	SIZE	DRWG
FLOOR TRUSSES	TS	1	C32TS - 59'-0¾"	ST 251
	TS2	2	C32TS2 - 59'-0¾"	ST252
	TS3	1	C32TS3 - 59'-0¾"	ST 253
BRIDGING TRUSSES	T7	1	24T7 - 19'-6"	BT 207
	T7A	1	24T7A - 19'-6"	BT207A
	T7B	1	24T7B - 19'-6"	BT207B
	T14	1	24T14 - 19'-6"	BT214
3"x2"x ¼" ANGLES	A9	1	3"x2"x¼"x2'-7 15/16"	ST 404
	A12	2	3"x2"x¼"x5'-11 [illegible]"	ST 404
	[illegible]	2	3"x2"x¼"x6'-3 [illegible]"	ST 404
	A49	1	3"x2"x¼"x[illegible]'-0 [illegible]"	ST 413
ANGLE ASSEMBLY ** (AA24 IS REPLACED BY AA24X ABOVE FLR. 74) ⚠1	AA7	1	SEE REF DRWG	ST 404
	AA9	4	SEE REF DRWG	ST 404
	AA92		SEE REF DRWG	ST 404
	AA11	1	SEE REF DRWG	ST 404
	AA16	1	SEE REF DRWG	ST 404
	AA17	3	SEE REF DRWG	ST 404
	AA18	1	SEE REF DRWG	ST 404
	AA19	1	SEE REF DRWG	ST 404
	**AA24	1	SEE REF DRWG	ST 412
DIAGONAL FLATS	F1	4	1½"x⅝"x6'-8"	ST402
	F2 / F2B	6 *	1½"x⅝"x6'-10½"	ST402
	F3	1	1½"x⅝"x6'-11¼"	ST402
	F4	1	1½"x⅝"x7'-0	ST402
	F5	1	1½"x⅝"x4'-4"	ST402
PATCH PLATES	PP1	6	2"x¼"x0'-9"	ST400
	PP2	6	3"x3/16"x0'-3"	ST400
COVER PLATES	A	1	9"x.0135"x13'-11½"	ST303
	B	2	9"x.0135"x15'-2"	ST303
	E	1	9"x.0135"x14'-4½"	ST303
	As	1	3½"x.0135"x13'-11½"	ST303
	Bs	2	3½"x.0135"x15'-2	ST303
	Es	1	3½"x.0135"x14'-4½	ST 303
DIAGONAL FLAT	F8A	*	SEE REF. DRWG	ST 415
# 8 SHEAR ANCHOR	SA2	2	8 REBAR x 0'-9"	ST400
DAMPING SADDLE	DUS-3	1	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-5	1	3½"x3½"x⅜"x3'-6⅞"	ST299
	DUS-6	3	3½"x3½"x⅜"x4'-4⅞"	ST299
	DUS-7	1	3½"x3½"x⅜"x4'-4⅞"	ST299
MISC PLATES	PF-1	2	1½"x½"x0'-4"	ST400
	PF-3	5	3½"x⅜"x0'-3"	ST400
CONN ANGLE	C5	1	3x2"x3/8"x0-3	ST 413
ANGLE CLIP ⚠1	C1	12	2"x1½"x¼"x0'-6"	ST400
	C2	4	2½"x1½"x¼"x0'-6"	ST400
CORNER ANGLE ASSEMBLY	AA20	1	SEE REF DRWG	ST405

NO	DATE	REVISION	BY
⚠1	4-9-69	AS NOTED	G.D.C.

REF. DRWG.

7-AB1-46	11-25-68	SA-124	1-6-69
7-AB1-47	11-25-68	7-AB4-14, 14.1	10-15-68
7-AB1-48	11-25-68	7-AB4-15, 16	7-22-68
7-AB2-2	7-22-68	7-AB4-21	7-22-68
7-AB2-9	7-22-68	7-AB4-23, 25	7-22-68
7-AB3-70	11-25-68	7-AB4-29	1-3-69
7-AB3-75	11-25-68	7-AB4-39-41, 43	7-22-68
7-AB4-3	10-15-68	7-AB4-42	10-15-68
		7-AB4-45	12-20-68

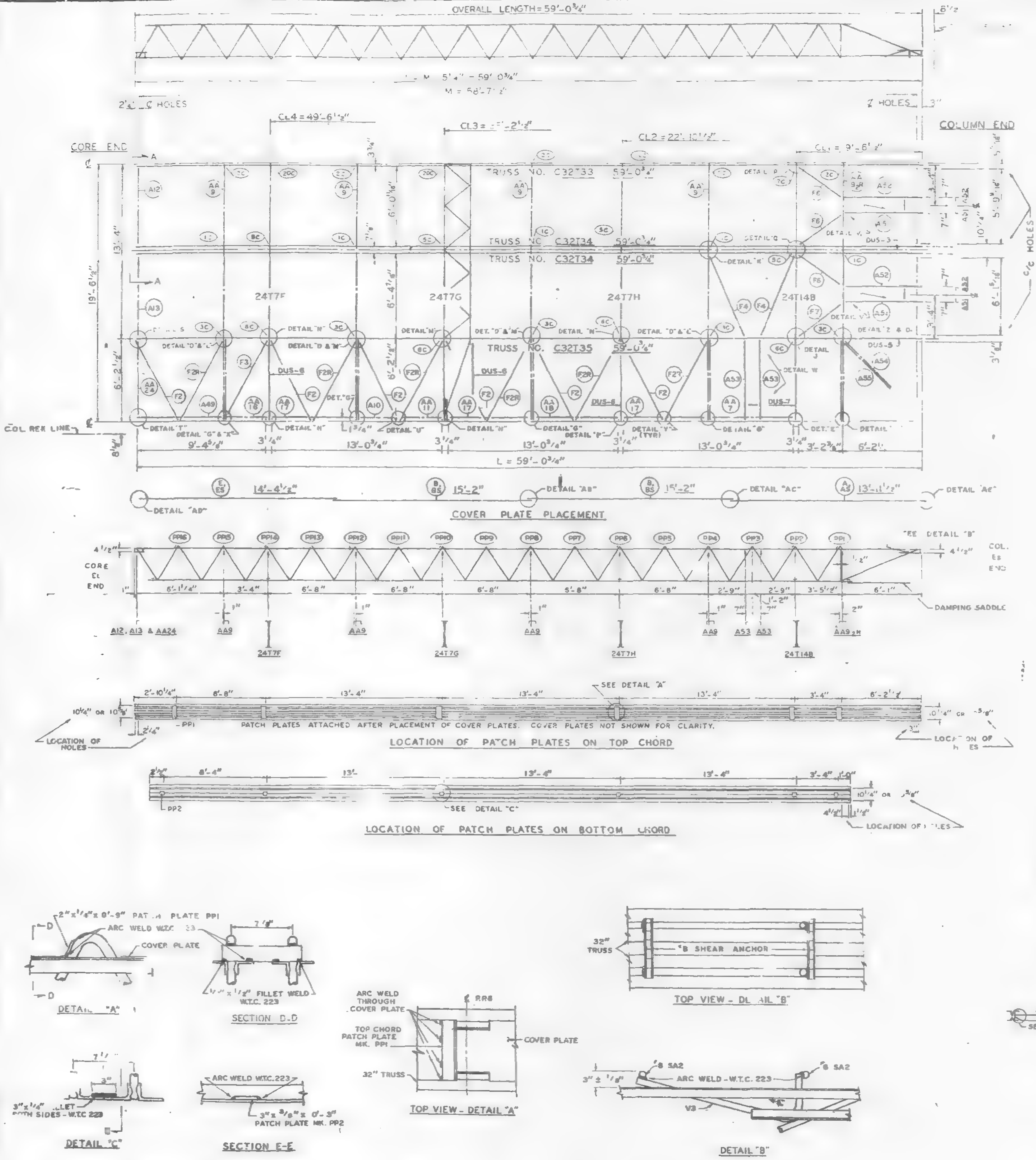
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

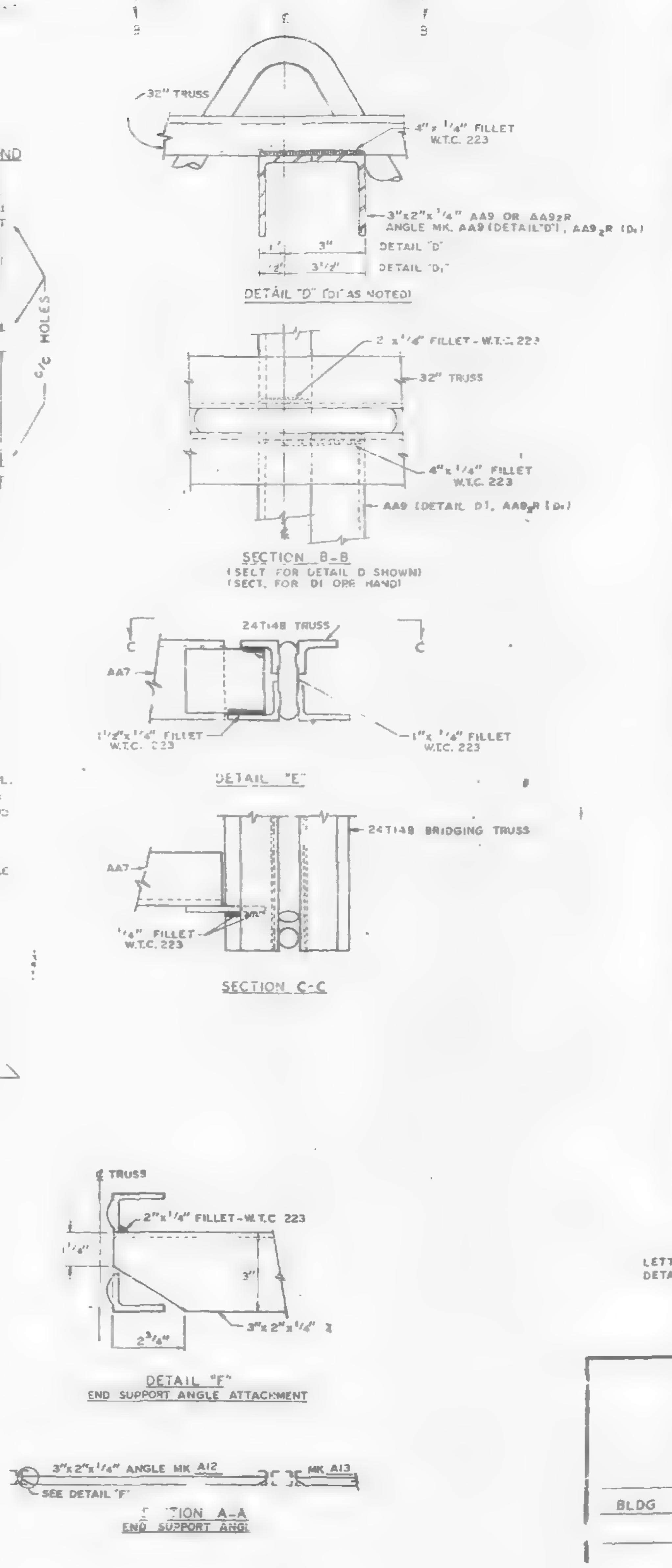
BLDG. A FLOORS 45 (NORTH & SOUTH) 46-49 (SOUTH) 79-83 (NORTH)

PANEL F5 19'-5" x 59'-0¾"

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB4-75	PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A.	DATE 4/[illegible]/69	DRAWN BY: [illegible] DATE JAN. 17, 1969	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY: T.R. CHURA DATE JAN. 17, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY: A. CARL [illegible]		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-F5





REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
FLOOR TRUSSES	T33	1	C32T33 x 59'-0 3/4"	ST 233
	T34	2	C32T34 x 59'-0 3/4"	ST 234
	T35	1	C32T33 x 59'-0 3/4"	ST 235
BRIDGING TRUSSES	T7F	1	24T7F x 19'-6"	BT 207F
	T7G	1	24T7G x 19'-6"	BT 207G
	T7H	1	24T7H x 19'-6"	BT 207H
	T148	1	24T148 x 19'-6"	BT 214B
3"x2"x1/4" ANGLES	A10	1	3"x2"x1/4"x2'-7 15/16"	ST 404
	A12	1	3"x2"x1/4"x5'-11 11/16"	ST 404
	A13	1	3"x2"x1/4"x6'-3 7/16"	ST 404
	A49	1	3"x2"x1/4"x6'-0 11/16"	ST 413
	A51	2	3"x2"x1/4"x6'-0"	ST 413
	A52	2	3"x2"x1/4"x6'-0"	ST 413
	A53	2	3"x2"x1/4"x5'-10"	ST 413
	A54	1	3"x2"x1/4"x4'-0 1/2"	ST 413
	A55	1	3"x2"x1/4"x4'-3"	ST 413
ANGLE ASSEMBLY	AA7	1	SEE REF. DRWG	ST 404
	AA9	4	SEE REF. DRWG	ST 404
	AA9R	1	SEE REF. DRWG	ST 404
	AA11	1	SEE REF. DRWG.	ST 404
	AA16	1	SEE REF. DRWG.	ST 404
	AA17	3	SEE REF. DRWG	ST 404
	AA18	1	SEE REF. DRWG.	ST 404
	AA24	1	SEE REF. DRWG.	ST 412
DIAGONAL FLATS	F2	6	1 1/2"x5/8"x6'-10 1/2"	ST 402
	F2R	6	1 1/2"x5/8"x6'-10 1/2"	ST 402
	F3	1	1 1/2"x5/8"x6'-11 1/4"	ST 402
	F4	2	1 1/2"x5/8"x7'-0"	ST 402
	F6	3	1 1/2"x5/8"x4'-7"	ST 415
	F7	1	1 1/2"x5/8"x4'-9 3/4"	ST 415
PATCH PLATES	PP1	6	2"x1/4"x0'-9"	ST 400
	PP2	6	3"x3/8"x0'-3"	ST 400
COVER PLATES	A	1	9"x.0135"x13'-11 1/2"	ST 303
	B	2	9"x.0135"x15'-2"	ST 303
	E	1	9"x.0135"x14'-4 1/2"	ST 303
	As	1	3 1/2"x.0135"x13'-11 1/2"	ST 303
	Bs	2	3 1/2"x.0135"x15'-2"	ST 303
	Es	1	3 1/2"x.0135"x14'-4 1/2"	ST 303
ANGLE CLIPS	C1	9	2"x1 1/2"x1/4"x0'-6"	ST 400
	C2	7	2 1/2"x1 1/2"x1/4"x0'-6"	ST 400
	C5	1	3"x2"x.37"x0'-3"	ST 418
DAMPING SADDLE	DUS-3	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST 298
	DUS-5	1	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST 299
	DUS-6	3	3 1/2"x3 1/2"x3/8"x4'-4 7/8"	ST 1299
	DUS-7	1	3 1/2"x3 1/2"x3/8"x4'-4 7/8"	ST 299
MISC. PLATES	PF-1	2	1 1/2"x1/2"x0'-4"	ST 400
	PF-3	5	3 1/2"x3/8"x0'-5"	ST 400
	PF-12	2	6 1/2"x1/2"x1'-0"	ST 416
	PF-13	2	1"x1/8"x1'-0"	ST 416
	PF-14	2	3"x1/4"x0'-7"	ST 416
	PF-15	2	1 1/2"x1/2"x0'-2"	ST 416
	PF-16	2	8 1/4"x1/2"x0'-2"	ST 416
	PF-17	2	2"x1/4"x3 1/2"	ST 416
	PF-18	3	2"x1/4"x1'-1 3/8"	ST 416
#8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST 400

LETTERS AND NUMBERS IN ELLIPSES INDICATE CONNECTION DETAILS SHOWN ON SHEETS CD 201, CD 204 & CD 229, ie. (1C)

ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.
SEE SHEET FP-F8-2 OR FP-F8-3 FOR DETAILS CALLED BUT NOT SHOWN ON THIS SHEET.
UNLESS OTHERWISE SHOWN ALL CONNECTION ARC WELDS SHALL BE 1"x1/4" FILLET.
STEEL DECK NOT SHOWN ON DETAILS FOR CLARITY.

A = 1/4"
B = 1/4"

NO.	DATE	REVISION	BY
1	4-10-69	GENERAL	GDC

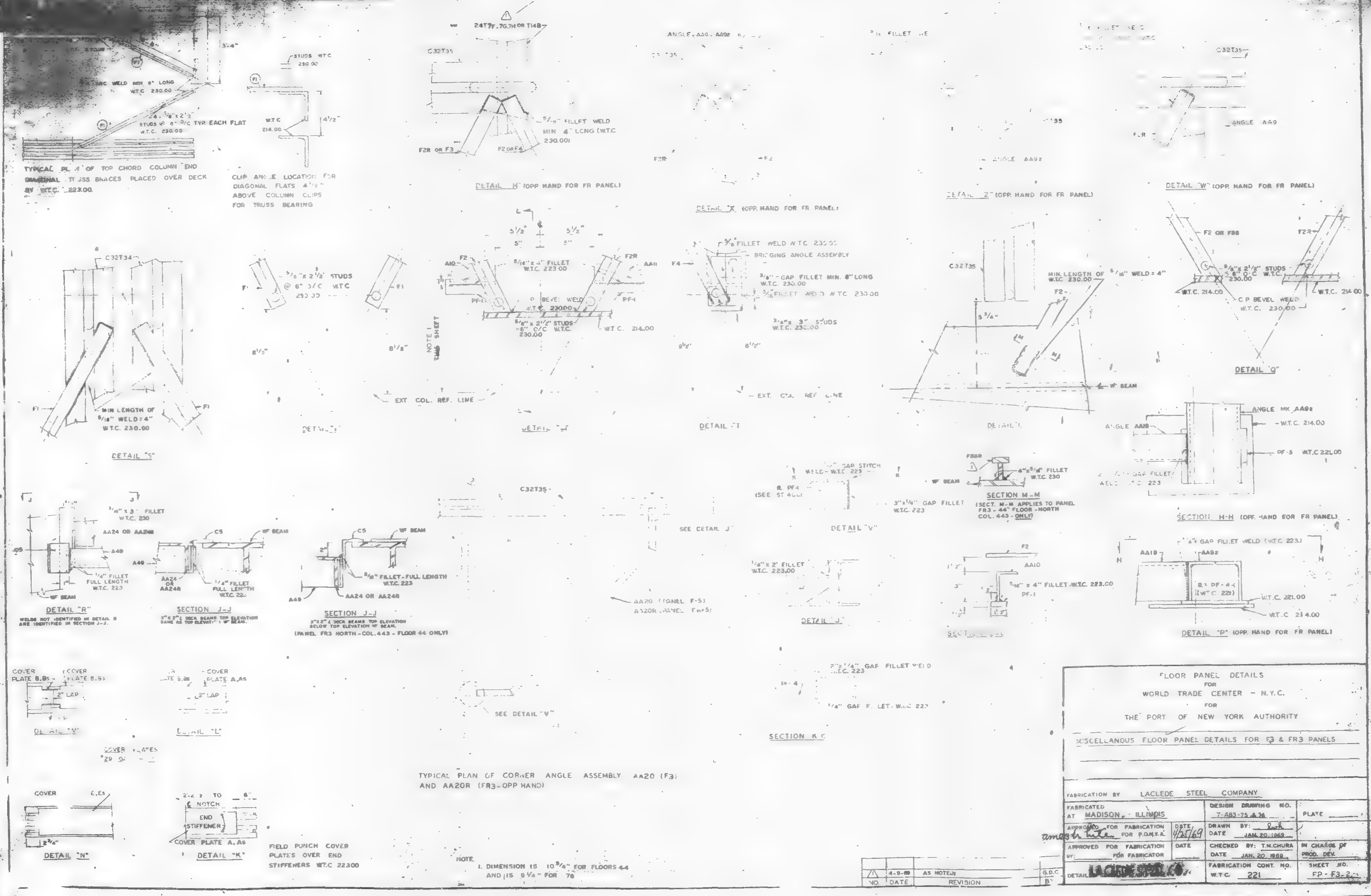
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 44 (SOUTH)

PANEL F8 19'-6" x 59'-0 3/4"

FABRICATION BY LACLEDE STEEL COMPANY

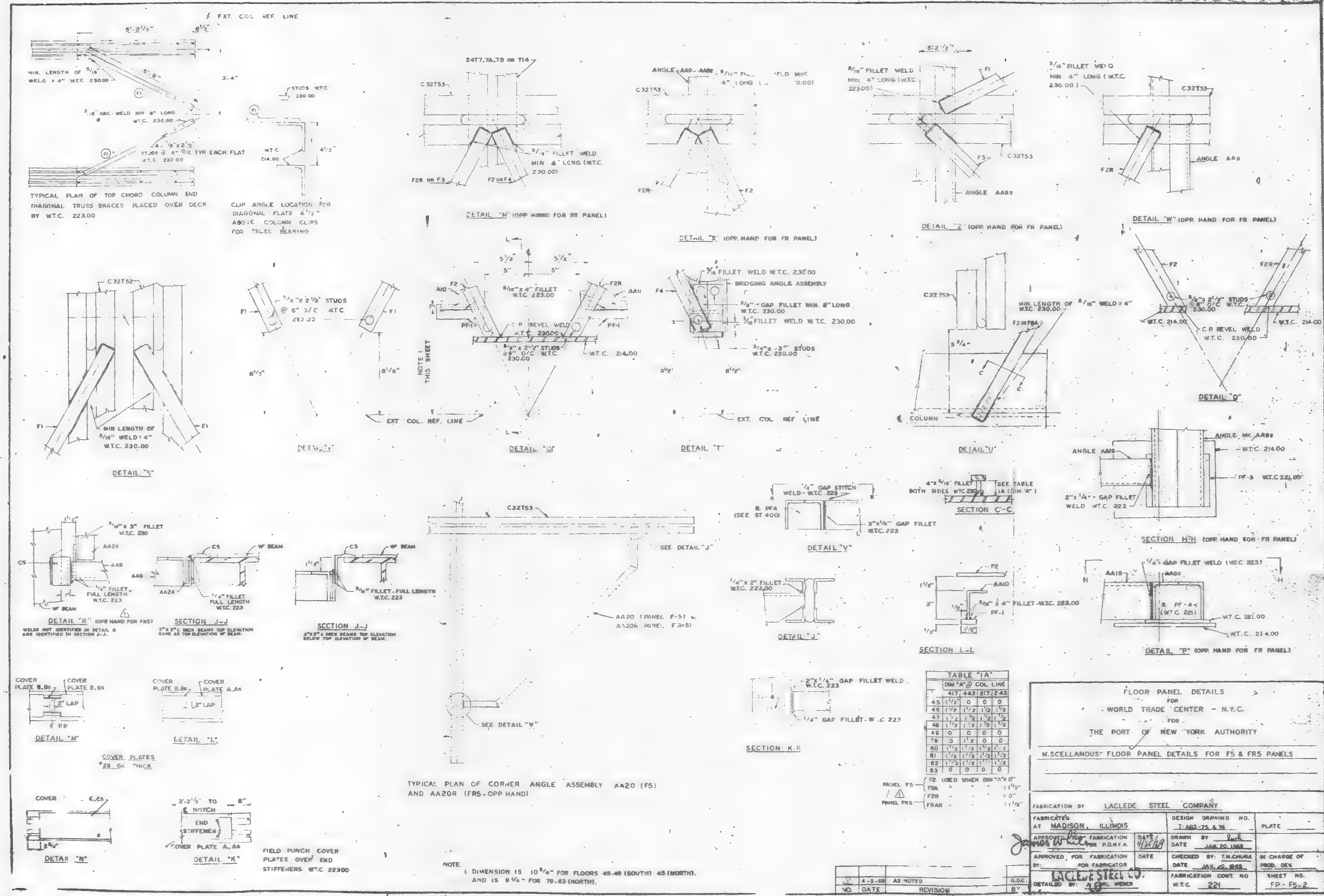
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB3-62	PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. James White	DATE 4/25/69	DRAWN BY: gdc DATE FEB. 7, 1969	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY: T.M.CHURA DATE FEB. 7, 1969	IN CHARGE OF PROD. DEV.
DETA[redacted]		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-F8



FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

MISCELLANOUS FLOOR PANEL DETAILS FOR F3 & FR3 PANELS

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-A83-75 & 76	PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A.	DATE 4/25/69	DRAWN BY: DATE JAN. 20, 1969	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY: T.M. CHURA DATE JAN. 20, 1969	IN CHARGE OF PROD. DEV.
DETAIL LACLEDE STEEL CO.		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-F3-2



NOTE
1. DIMENSION IS 10 3/4" FOR FLOORS 45-49 (SOUTH) 45 (NORTH). AND IS 9 1/4" FOR 79-83 (NORTH).

TABLE "IA"

	DIM "A" @ COL LINE			
	417	443	217	243
45	1 1/2"	0	0	0
46	1 1/2	1 1/2	1 1/2	1 1/2
47	1 1/2	1 1/2	1 1/2	1 1/2
48	1 1/2	1 1/2	1 1/2	1 1/2
49	0	0	0	0
79	0	1 1/2	0	0
80	1 1/2	1 1/2	1 1/2	1 1/2
81	1 1/2	1 1/2	1 1/2	1 1/2
82	1 1/2	1 1/2	[illegible]	1 1/2
83	0	0	0	0

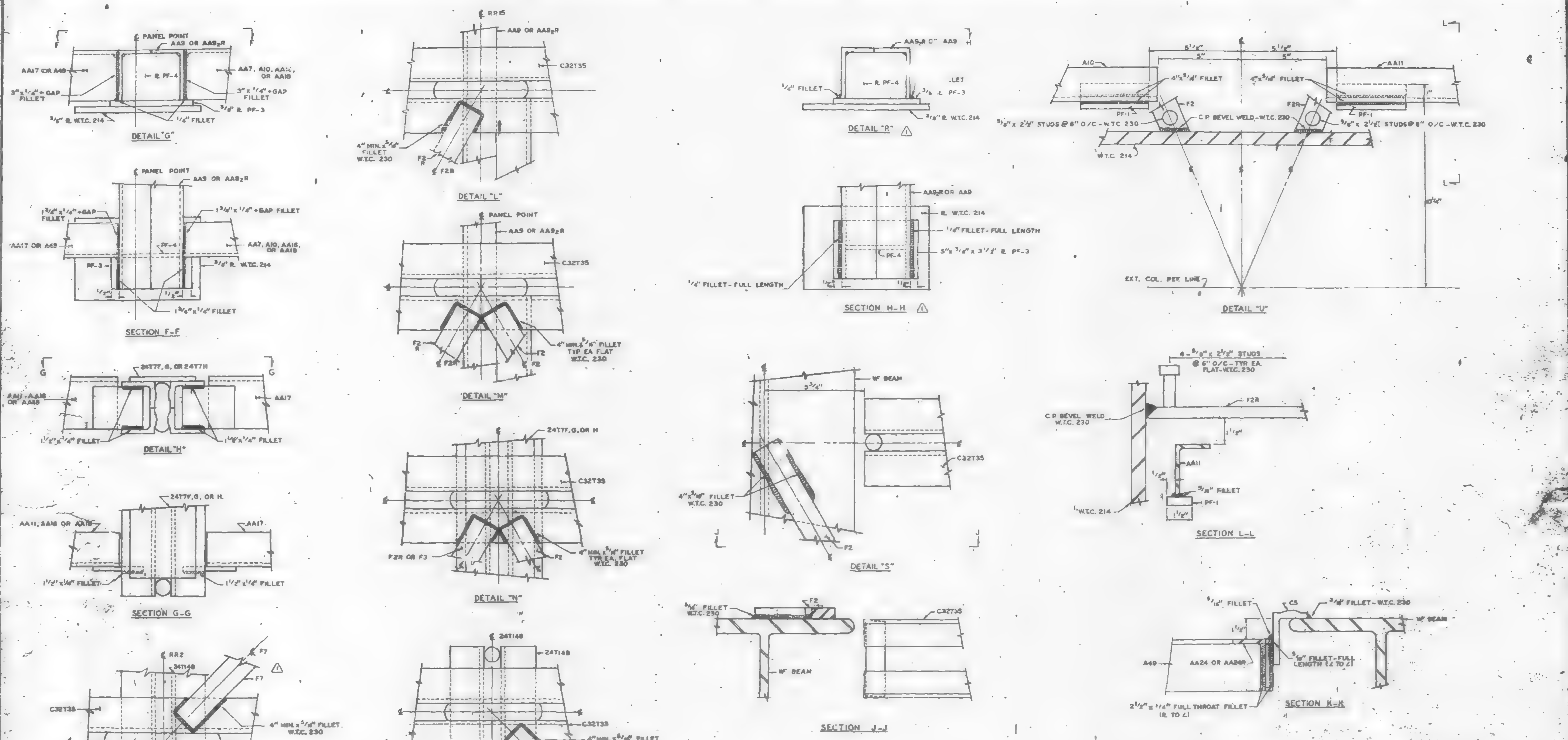
PANEL F5 — F2 USED WHEN DIM "A" = 0"; F8A " " " = 1 1/2"
PANEL FR5 — F2R " " " = 0"; F8AR " " " = 1 1/2"

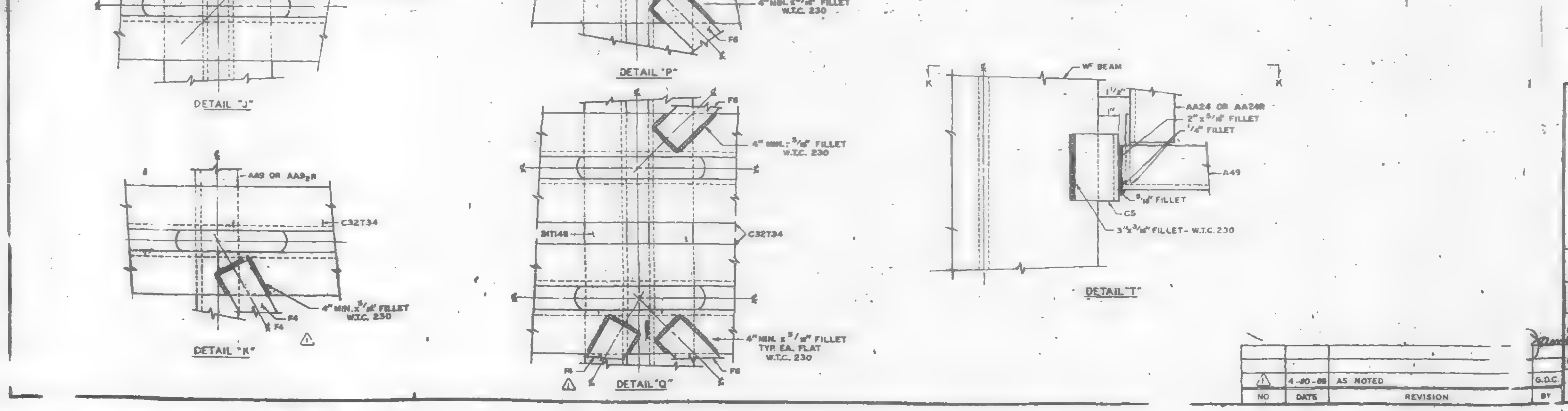
NO.	DATE	REVISION	BY
1	4-9-69	AS NOTED	G.D.C.

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

MISCELLANEOUS FLOOR PANEL DETAILS FOR F5 & FR5 PANELS

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A83-75 & 76
PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. James White DATE 4/25/69
DRAWN BY [illegible] DATE JAN. 20, 1969
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE
LACLEDE STEEL CO.
CHECKED BY: T.M. CHURA DATE JAN. 20, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY: A. CARL WEBER
FABRICATION CONT. NO W.T.C. 221
SHEET NO. FP - F5 - 2





ALL DETAILS ON THIS SHEET ARE DRAWN FOR PANEL F8. ALL DETAILS MAY BE USED FOR PANEL FR8 IF USED OPPOSITE HAND.

UNLESS OTHERWISE NOTED ALL WELDS ARE TO BE MADE BY W.T.C. 223.

STEEL DECK NOT SHOWN ON DETAILS FOR CLARITY.

ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL.

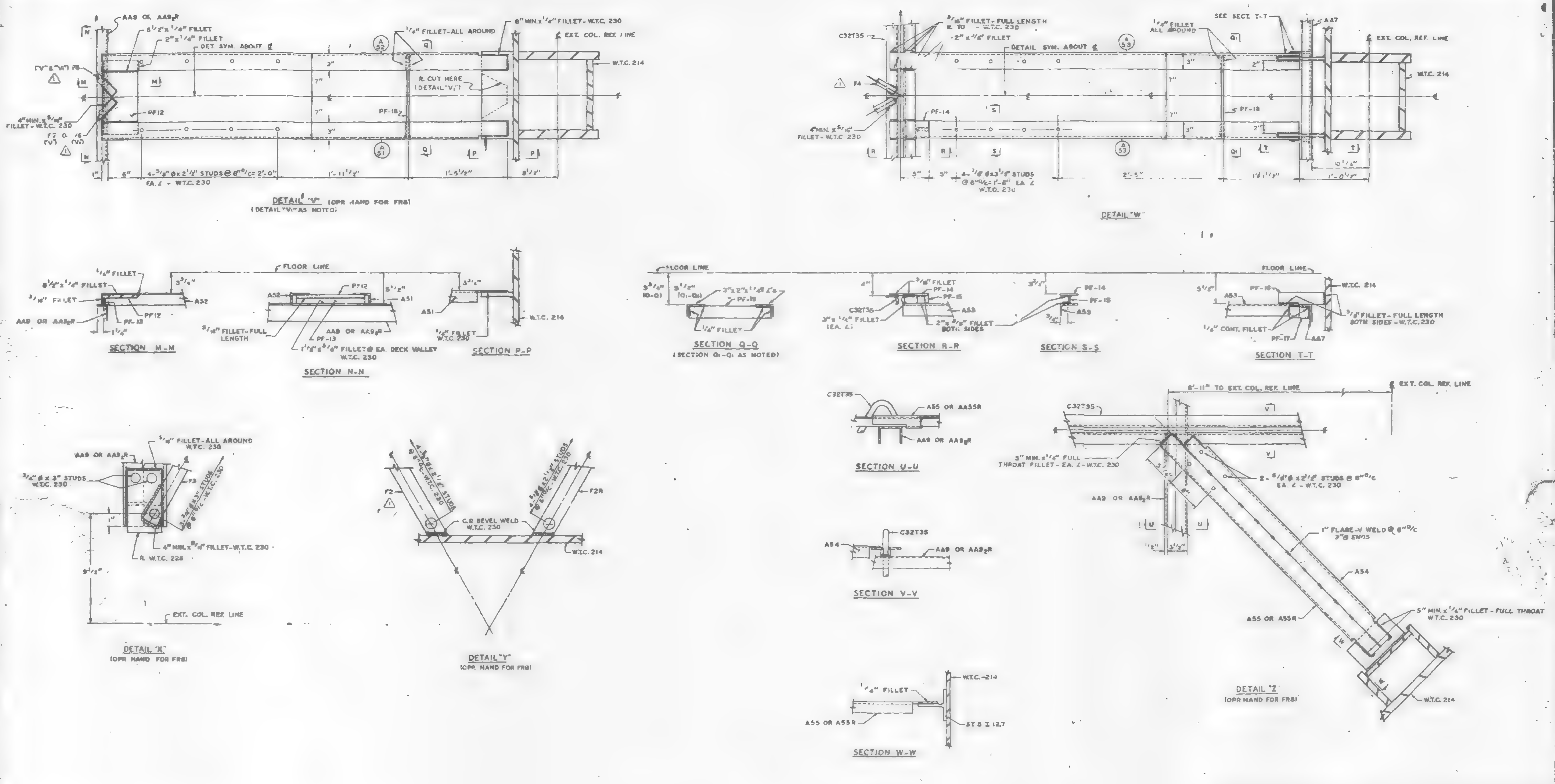
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR PANEL DETAILS FOR PANELS F8 & FR8

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-[illegible]-62 & 63	PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A. — DATE 4/2/69	DRAWN BY: [illegible] DATE FEB. 7, 1968	
APPROVED FOR FABRICATION BY: FOR FABRICATOR — DATE	CHECKED BY: T.M.CHURA DATE FEB. 7, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY: LACLEDE STEEL CO.	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-F8-2

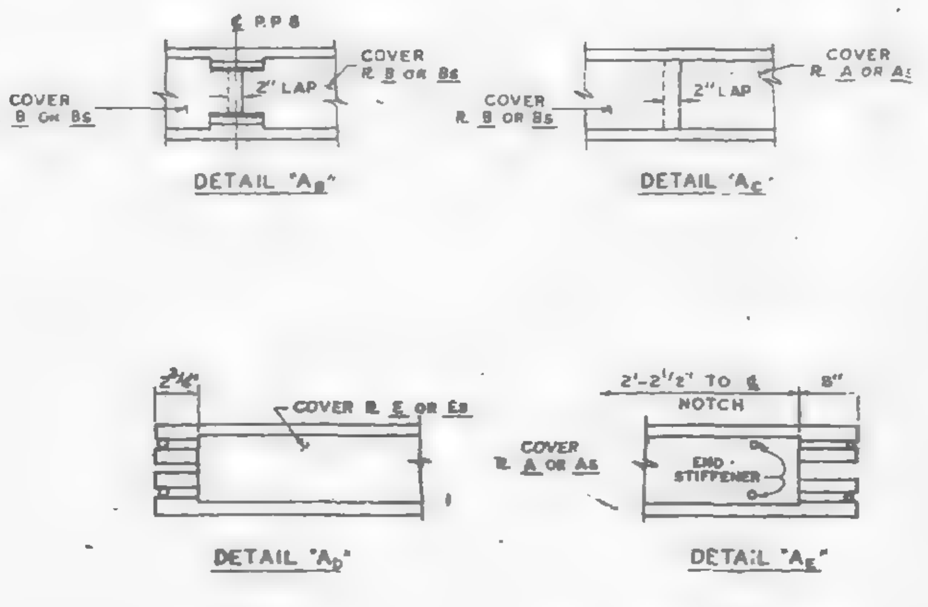
NO	DATE	REVISION	BY
1	4-10-68	AS NOTED	G.D.C.



ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERI[illegible] OF EQUAL.
UNLESS OTHERWISE NO[illegible] ALL ARC WELDS BY W.T.C [illegible]23.
STE[illegible]L DECK NOT SHOW[illegible] ON DETAILS FOR CLARITY.

REF. DR[illegible]S.

7-AB3-62	[illegible]-20-69	7-AB4-45.1	11-25-69
7-AB3-[illegible]	1-20-69	7-AB4-21	1-6-69
SA-124	1-6-69	7-AB4-22	1-6-69
7-AB1-30	1-6-69	7-AB4-22.1	7-22-69
7-AB1-31	1-6-69	7-AB4-23	7-22-69
7-AB1-48	1-6-69	7-AB4-24	10-15-69
7-AB2-16	1-6-69	7-AB4-26	7-22-69
7-AB2-9	1-6-69		
7-AB4-31.1	1-20-69		
7-AB4-34.1	1-20-69		
7-AB4-35.3	1-20-69		



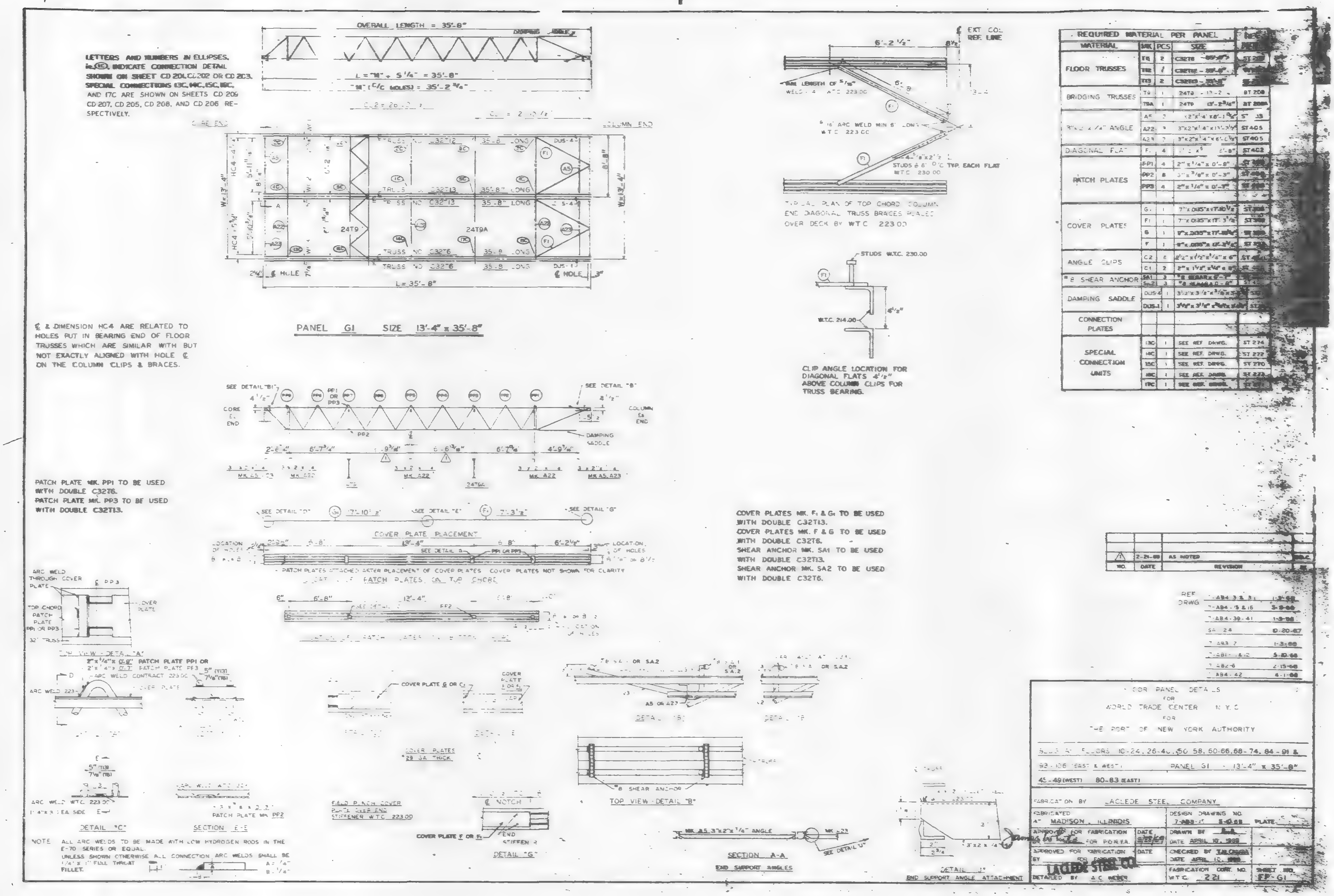
NO.	DATE	REVISION	BY
1	4-10-69	AS NOTED	G.D.C.

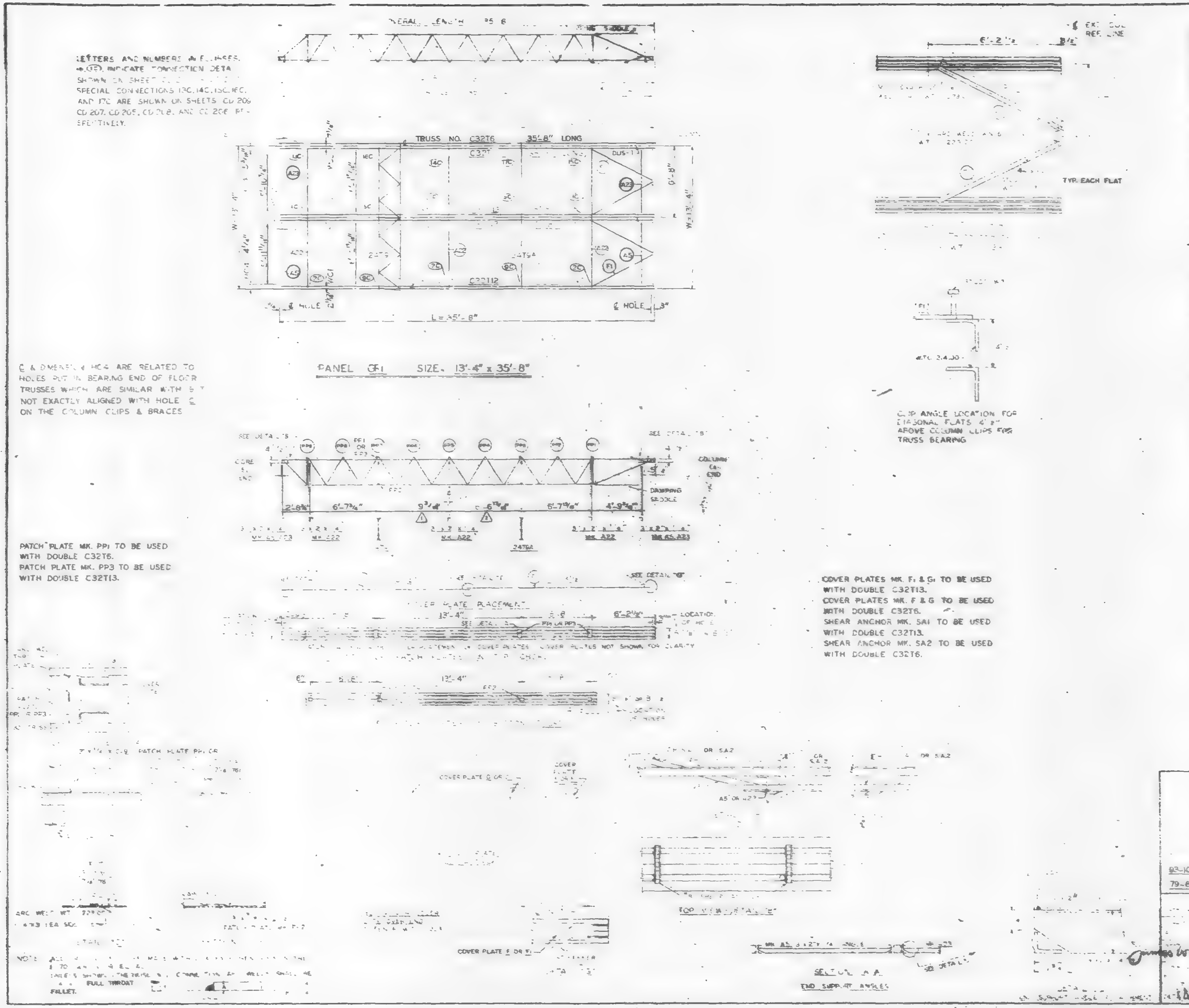
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
[redacted]
THE PORT OF NEW YORK AUTHORITY

FLOOR PANEL DETAILS FOR PANELS F8 & FR8.

FABRICATION BY: LACLEDE STEEL COMPANY

[redacted] AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB3-62 & 63	PLATE
APPROVED FOR FABRICATION [illegible] FOR P.O.N.Y.A. — DATE 4/25/69	DRAWN BY: gdc DATE FEB. 7, 1969	
APPROVED FOR FABRICATION BY: FOR FABRICATOR — DATE	CHECKED BY: T.M. CHURA DATE FEB. 7, 1969	IN CHARGE OF PROC. DEV.
DETAIL LACLEDE STEEL CO.	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. FP-F8 3


LETTERS AND NUMBERS IN ELLIPSES, i.e. (13C), INDICATE CONNECTION DETAIL SHOWN ON SHEET CD 201, CD 202 OR CD 203. SPECIAL CONNECTIONS 13C, 14C, 15C, 16C, AND 17C ARE SHOWN ON SHEETS CD 206, CD 207, CD 205, CD 208, AND CD 206 RESPECTIVELY.
OVERALL LENGTH = 35'-8"
PANEL G1 SIZE 13'-4" x 35'-8"
L = 35'-8"
℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.
PATCH PLATE MK. PP1 TO BE USED WITH DOUBLE C32T6.
PATCH PLATE MK. PP3 TO BE USED WITH DOUBLE C32T13.
COVER PLATE PLACEMENT
COVER PLATES MK. F1 & G1 TO BE USED WITH DOUBLE C32T13.
COVER PLATES MK. F & G TO BE USED WITH DOUBLE C32T6.
SHEAR ANCHOR MK. SA1 TO BE USED WITH DOUBLE C32T13.
SHEAR ANCHOR MK. SA2 TO BE USED WITH DOUBLE C32T6.
TYPICAL PLAN OF TOP CHORD COLUMN END DIAGONAL TRUSS BRACES PLACED OVER DECK BY W.T.C. 223.00
CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4'-1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.
REQUIRED MATERIAL PER PANEL
FLOOR TRUSSES
BRIDGING TRUSSES
DIAGONAL FLAT
PATCH PLATES
COVER PLATES
ANGLE CLIPS
SHEAR ANCHOR
DAMPING SADDLE
CONNECTION PLATES
SPECIAL CONNECTION UNITS
DETAIL "C"
SECTION E-E
TOP VIEW - DETAIL "B"
DETAIL "G"
SECTION A-A
END SUPPORT ANGLES
DETAIL "J"
END SUPPORT ANGLE ATTACHMENT
NOTE: ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1" FULL THROAT FILLET.
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
BLDG AT FLOORS 10-24, 26-40, 50-58, 60-66, 68-74, 84-91 &
93-106 (EAST & WEST) PANEL G1 - 13'-4" x 35'-8"
45-49 (WEST) 80-83 (EAST)
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-G1



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T6	2	C32T6 - 35'-8"	ST 2[illegible]
	T12	1	C32T12 - 35'-8"	[illegible]
	T13	2	C32T13 - 35' [illegible]	[illegible]
[illegible] TRUSSES	T9	1	24T[illegible] - 13'-2¾"	ST 209
	T9A	1	[illegible]A - 13'-2¾"	ST 209A
[illegible]	A5	[illegible]	3"x2"x[illegible]x6'-1 13/16"	[illegible]403
	A22	[illegible]	3"x2"x[illegible]x13'-3½"	ST 405
	A23	2	3"x2"x[illegible]x6'-0⅞"	ST 405
[illegible]	[illegible]	4	[illegible] - 6'-8"	ST 402
[illegible]	PP1	4	[illegible] x 0'-9"	ST 400
	PP2	[illegible]	3"x[illegible]"x 0'-3"	ST 400
	PP3	4	2"x[illegible]"x 0'-7"	ST 400
[illegible]	[illegible]	[illegible]	[illegible] x .0135" x 7'-0[illegible]"	ST 303
	F1	[illegible]	[illegible] x .0135" x 7'-3[illegible]"	ST 303
	G	1	9" x .0135" x 17'-10½"	ST 303
	F	1	9" x .0135" x 17'-3½"	ST 303
[illegible]	[illegible]	[illegible]	[illegible]	ST 400
	C1	2	2" x 1½" x ¼" x 6"	ST 400
SHEAR ANCHOR	SA1	3	#8 REBAR x 0'-7"	ST 400
	SA2	3	#8 REBAR x 0'-8"	ST 400
[illegible] SADDLE	DUS-4	[illegible]	[illegible]	ST 298
	DUS-1	1	3½" x 3½" x ⅜" x 3[illegible]"	ST 298
CONNECTION PLATES				
SPECIAL CONNECTION UNITS	13C	1	SEE REF. DRWG.	ST 274
	14C	1	SEE REF. DRWG.	ST 272
	15C	1	SEE REF. DRWG.	ST 270
	16C	1	SEE REF. DRWG.	ST 273
	17C	1	SEE REF. DRWG.	ST 27[illegible]

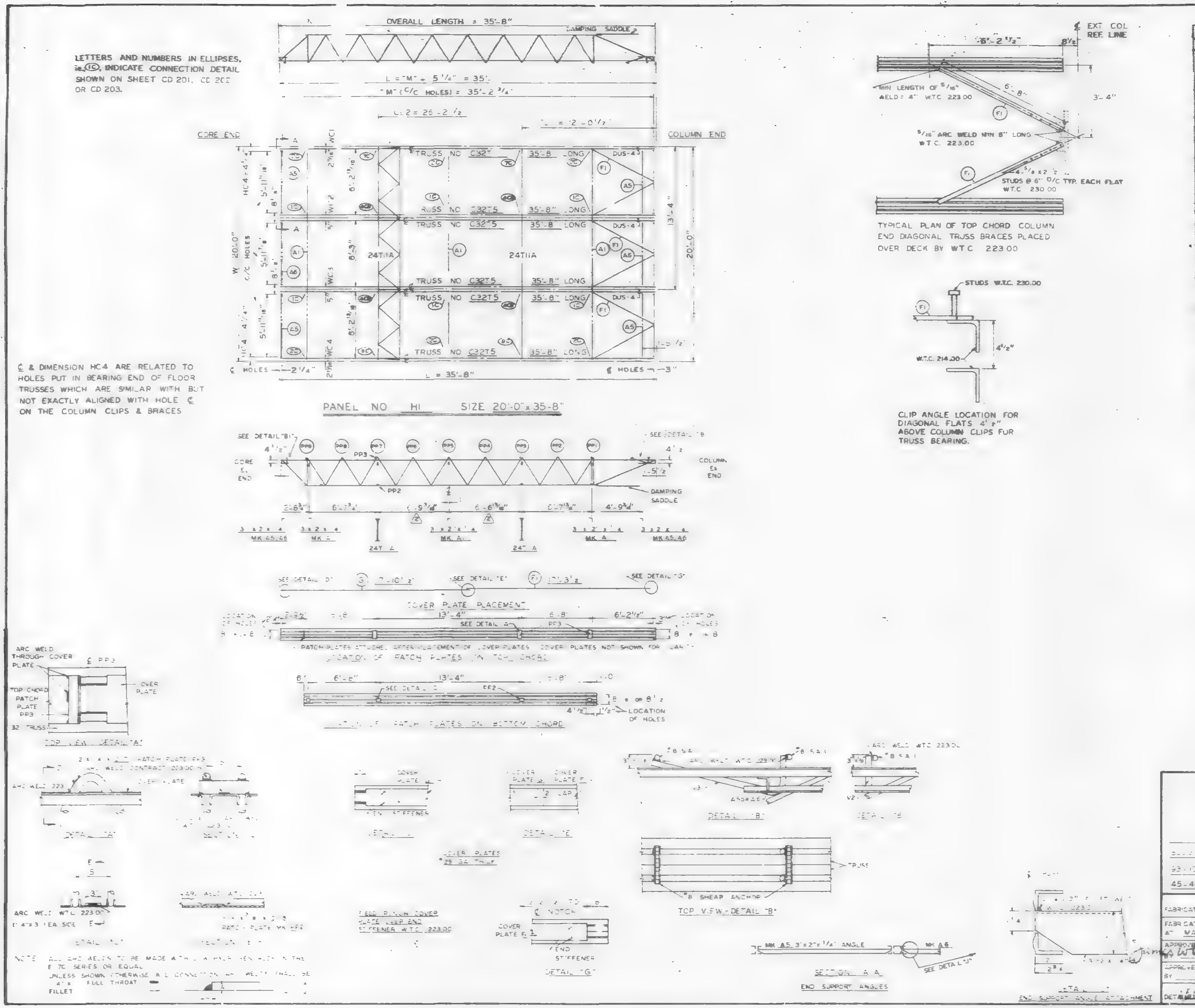
1	2-21-69	AS NOTED
NO.	DATE	REVISION

[illegible] 68-74, 84-91 & 93-106 (EAST & WEST) 79-83 (WEST) 46-49 (EAST)

PANEL GF1 - 13'-4" x 35'-8"

LACLEDE STEEL CO.

SHEET NO. FP-GF1



REQUIRED MATERIAL PER PANEL				
MATERIAL	MK	PCS	SIZE	[illegible]
FLOOR TRUSSES	T5	6	C32T5 - 35'-8"	[illegible]
BRIDGING TRUSSES	T11A	2	[illegible] 19' 11"	[illegible]
3"x2"x1/4" ANGLE	A1	3	3"x2"x1/4"x 19'-11"	ST 403
	A5	4	3"x2"x1/4" x 5'-1 3/8"	ST 403
	A6	2	3"x2"x[illegible] x 6'-2"	ST 403
DIAGONAL FLATS	F1	6	2 x 5/8" x 6'-8"	ST 402
PATCH PLATES	PP3	[illegible]	2" x [illegible] 4 x 0'-7"	ST 400
	PP2	12	3" x 3/8" x 0'-3"	ST 400
COVER PLATES	G1	3	7" x 0.135" x 17'-10 1/2"	ST 300
	F1	3	7" x 0.135" x 17'-3 1/2"	ST 300
ANGLE CLIPS	C2	12	2 1/2" x 1 1/2" x 1/4" x [illegible]	ST 400
#8 SHEAR ANCHOR	SA1	9	#8 REBAR x 0'-7"	ST 400
DAMPING SADDLE	DUS-4	3	3 1/2" x 3 1/2" x 3/8" x 3'-6"	ST 298
CONNECTION BAR	CB1	2	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	2	4 1/2" x .30" x 0'-9"	ST 400
	P7	2	6 1/2" x 1/2" x 1'-0"	ST 401

NO	DATE	REVISION	BY
2	2-21-69	AS NOTED	G.D.C.
1	10-16-68	MATERIAL LIST	G.D.C.

REF DRAWINGS: 10-20-67, 1-3-68, 5-10-68, 2-15-68, 4-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

45-49 (WEST) 80-83 (EAST)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO [illegible] AB3-17 [illegible] PLATE

APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 2/22/69

DRAWN BY [illegible] DATE APRIL 10, 1968

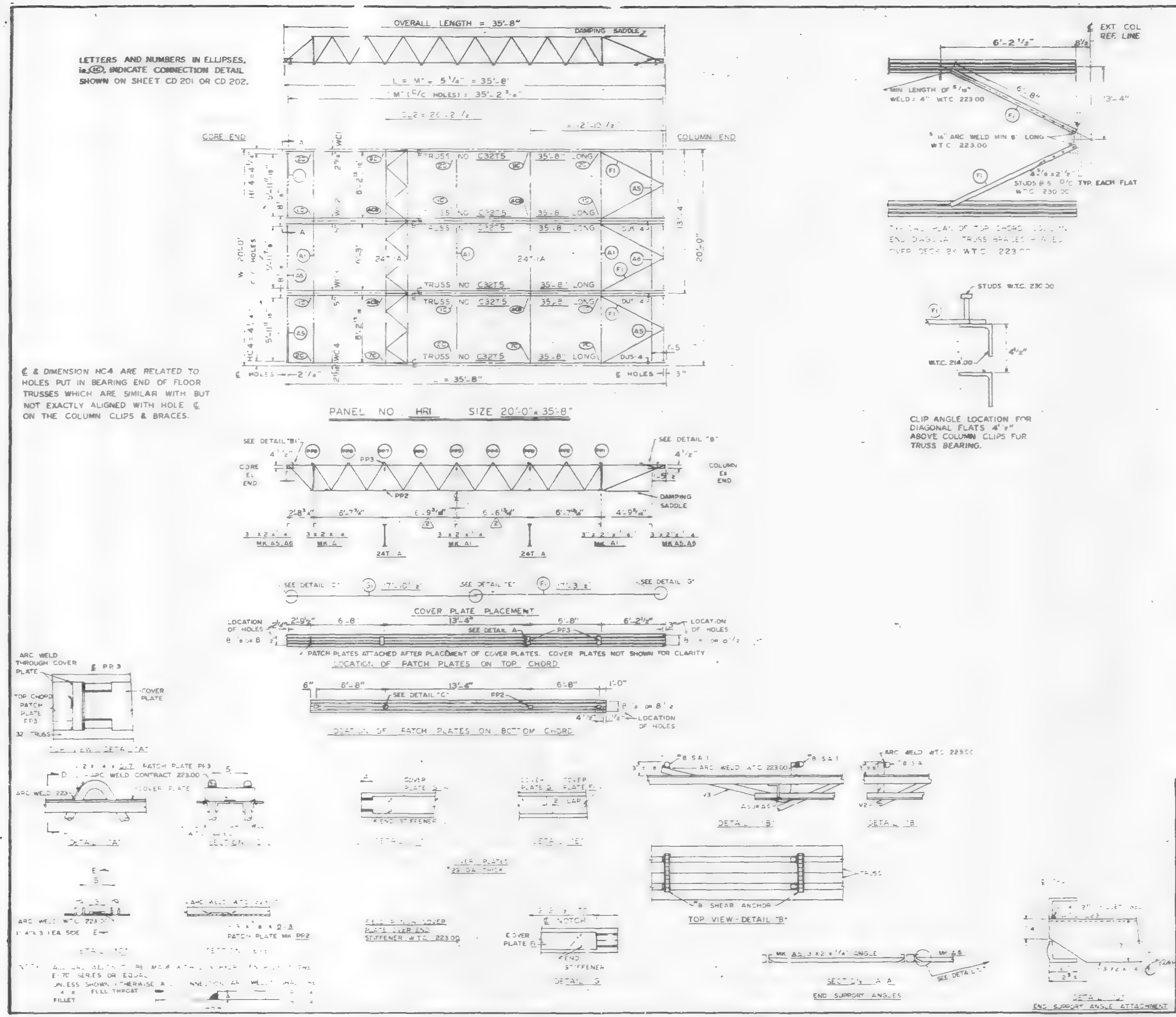
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR DATE

CHECKED BY T.M. CHURA DATE APRIL [illegible] 1968

DETAILED [illegible]

FABRICATION CONT NO 221

SHEET NO FP-H1



☆ REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	6	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	T1IA	2	2T11A 19'-11"	BT211A
3"x 2"x 1/4" ANGLE	A1	3	3 x2"x1/4"x 19'-11"	ST 03
	A5	4	3"x2"x1/4" x 6'-1 13/16"	ST403
	A6	2	3"x2"x1/4" 2'	ST403
DIAGONAL FLATS	F1	6	2"x5 -8"	ST402
PATCH PLATES	PP3	12	x 4 x 0'-7"	ST 400
	PP2	12	3 x 3/8" x 0'-3"	ST 400
COVER PLATES	G		x 0.135 x 7'-10 1/2"	ST 303
	F	3	7 x 0.135" x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	2	2 1/2" x 1 1/2" x 1/4" x 6"	ST 400
#8 SHEAR ANCHOR	SA1	3	#8 REBAR x 0'-7"	ST 400
DAMPING SADDLE	DUS-4	3	3 1/2" x 3 1/2" x 3/8" x 3-6 7/8"	ST298
		1		
CONNECTION BAR	CB1	2	1" ⌀ x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	2	4 1/2" x .30" x 0'-9"	ST 400
△1	P7	2	6 1/2" x 1/2" x 1'-0"	ST 401

NO	DATE	REVISION	BY
△2	2-21-69	AS NOTED	
△1	10-16-68	LIST OF MATERIAL	

REF DRWGS

7-AB4-3 & 31	1-3-68
7-AB4-5 & 16	5-8-68
AB4 33	3-68
SA-24	10-20-67
AB3 2	1-3-68
3B & 2	5-10-68
AB4 6	2-15-68
7 AB4 32	4- 68

THE PORT OF NEW YORK AUTHORITY

FLOORS 10-24, 26-40 (EAST & WEST), 46-4_, 50-58, 60-66, 68-74 (EAST)

PANEL HR1 - 20'-0" x 35'-8"

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO 7-AB3-18 5-10-68 PLATE

APPROVED FOR FABRICATION — DATE 2/28/69

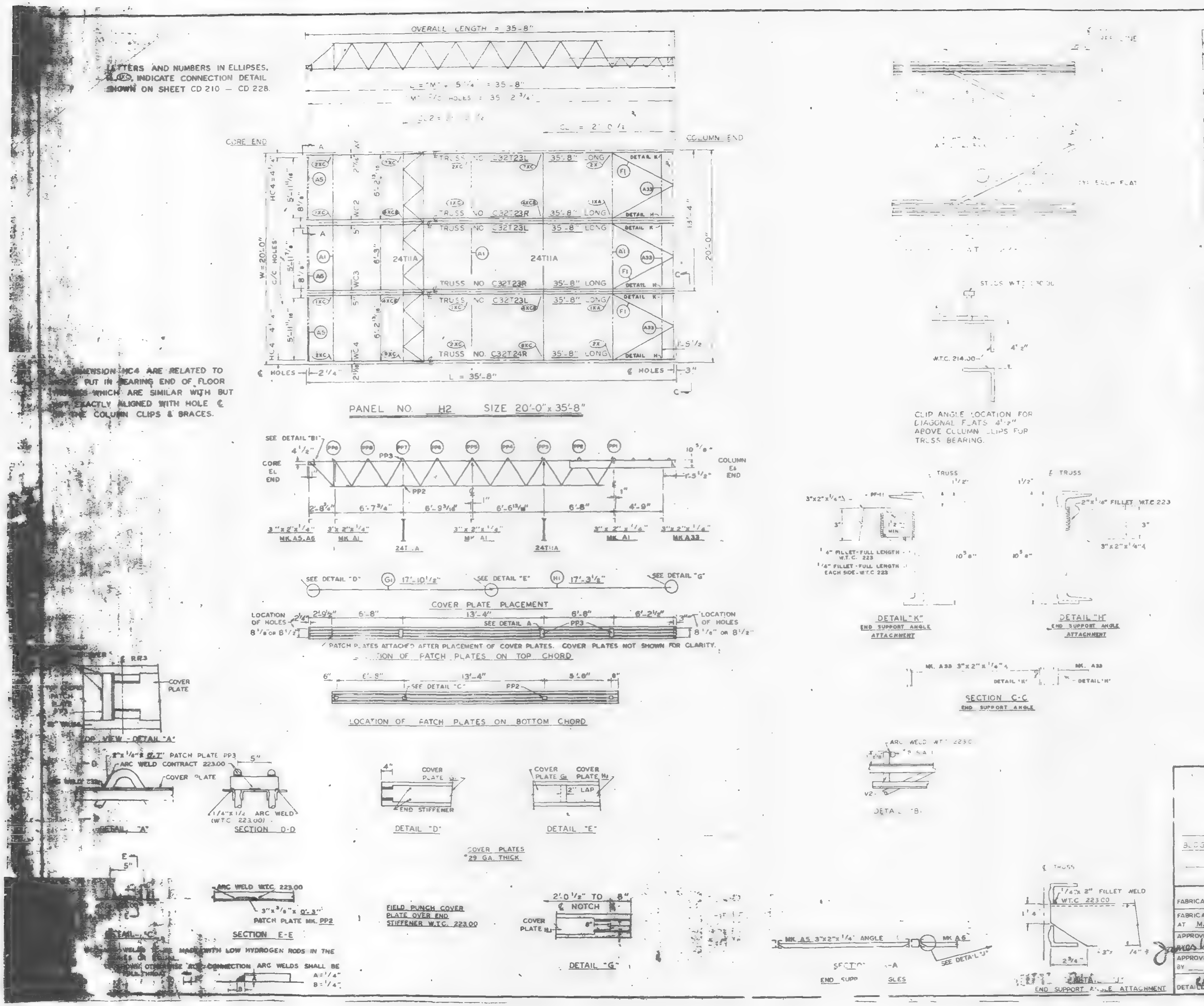
DRAWN BY — DATE APRIL 1968

APPROVED FOR FABRICATION BY — FOR FABRICATOR — DATE

CHECKED BY T.M. CHURA — DATE APRIL 1968

DETAILED BY — FABRICATION CONT NO W.T.C. 221

SHEET NO. FP-HR1



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS.	SIZE	
	T23L	3	C32T23L 35'-8"	ST223L
	T23R	2	C32T23R - 35'-8"	ST 223L
	T24R	1	C32T24R - 35'-8"	ST 224L
BRIDGING TRUSSES	[illegible] A	2	24T[illegible]A 19'-11"	ST21A
	A	3	3 x 2 x 4 x 19	ST403
	A5	2	3"x2"x 4 x 6'-1[13]	ST403
	A6	1	3"x2"x 4"x 6'-[illegible]"	ST403
	A33	3	3"x2"x 1/4"x 5'-10 1/2"	ST410
PATCH PLATES	PP3	12	2"x 4"x 0'-7"	ST 400
	PP2	2	3"x 3/8"x 0'-3"	ST 400
COVER PLATES	G	3	7"x.0135"x17'-10 1/2"	ST303
	H	3	7"x.0135"x17'-3 1/2"	ST303
ANGLE CLIPS		12	2 1/2" x 1 1/2" x 1/4" x 6"	ST 400
#8 SHEAR [illegible]	SA	3	#8 REBAR x 0'-7"	ST 400
DIAGONAL FLATS	F1	8	1 1/2" x 5/8" x 6'-8"	ST 402
[illegible] BAR	CB	3	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P	2	3 1/2" x 3/8 x 0'-6 1/2"	ST 400
	P2	2	4 1/2" x .39" x 0'-9"	ST 400
	P7	2	6 1/2" x .50" x 1'-0"	ST 401
CLOSURE PLATE	PF11	3	3"x 1/4" x 0'-2 3/8"	ST412

NO.	DATE	REVISION	BY

REF. DRWG.

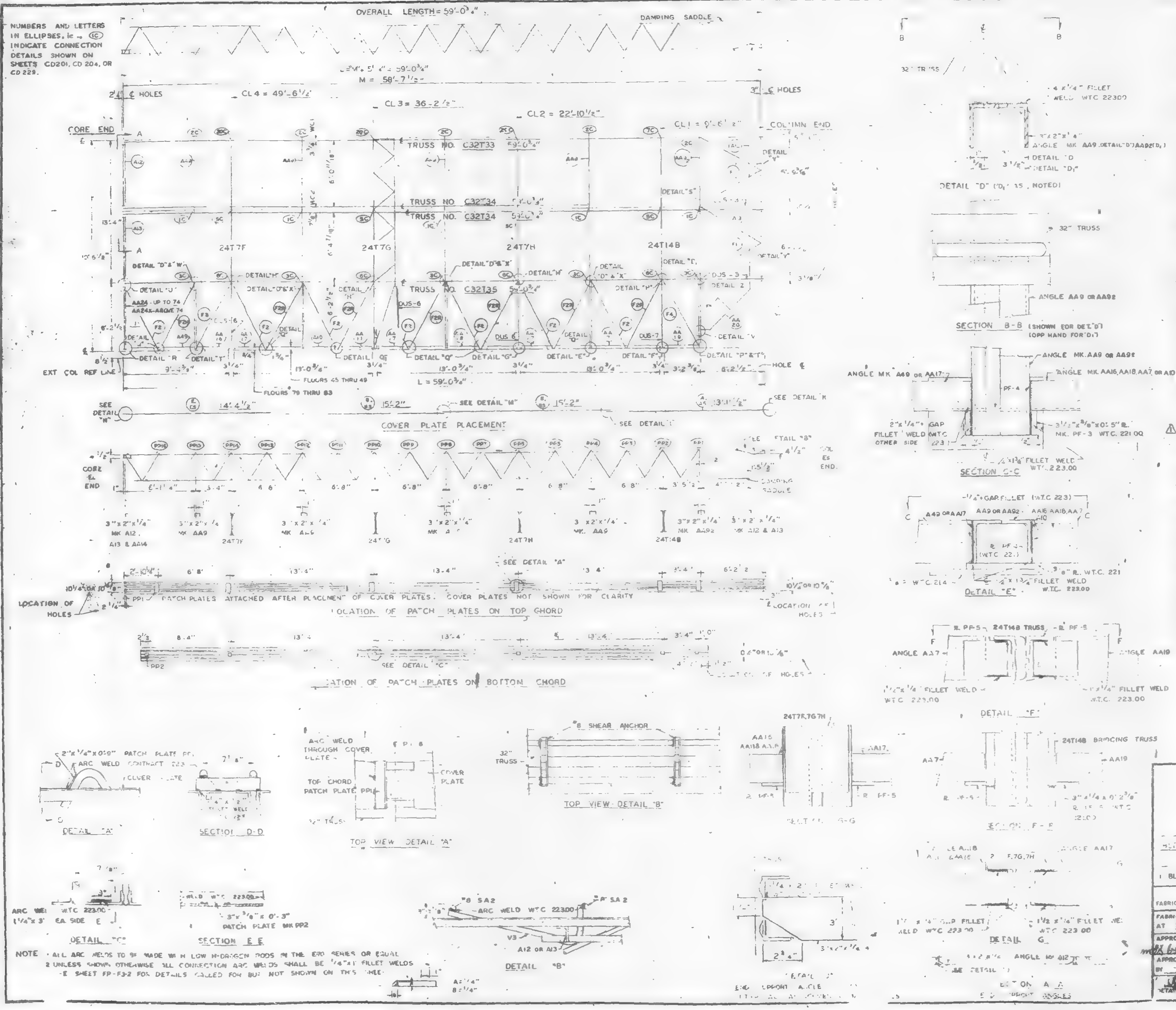
7-AB4-3	10-15-68
7-AB4-15 & 16	7-22-68
7-AB4-15.2	10-4-68
SA[illegible]	10-16-68
7-AB3-38	10-4-68
7-AB1-22	10-4-68
7-AB2-6	7-22-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG B FLOORS 25, 59, 92, (NORTH & SOUTH)

PANEL H2 - 20'-0" x 35'-8"

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINIOIS
DESIGN DRAWING NO. 7-AB3-58 PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A. DATE 7/10/69
DRAWN BY [illegible] DATE JULY 2, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE JULY 3, 1969
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. FP-H2



REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK.	PCS	SIZE	
FLOOR TRUSSES	T33	1	C32T33 - 59'-0¾"	ST 233
	T34	2	C32T34 - 59'-0¾"	ST234
	T35	1	C32T35 - 59'-0¾"	ST 235
BRIDGING TRUSSES	T7F	1	24T7F - 19'-6"	BT 207F
	T7G	1	24T7G - 19'-6"	BT207G
	T7H	1	24T7H - 19'-6"	BT207H
	T14B	1	24T14B - 19'-6"	BT214B
3"x2"x¼" ANGLES	A12	1	3"x2"x¼"x2'-7 15/16"	ST 404
	A12	2	3"x2"x¼"x5'-11 11/16"	ST 404
	A13	2	3"x2"x¼"x6'-3 [illegible]/16"	ST 404
	A49	1	3"x2"x¼"x[illegible]	ST 413
ANGLE ASSEMBLY *(AA24 IS REPLACED BY AA24X ABOVE FLS. 74) ⚠1	AA7	1	SEE REF. DRWG.	ST 404
	AA9	4	SEE REF. DRWG.	ST 404
	AA9₂	1	SEE REF. DRWG.	ST 404
	AA11	1	SEE REF. DRWG.	ST 404
	AA16	1	SEE REF. DRWG.	ST 404
	AA17	3	SEE REF. DRWG.	ST 404
	AA18	1	SEE REF. DRWG.	ST 404
	AA19	1	SEE REF. DRWG.	ST 404
	AA24	1	SEE REF. DRWG.	ST 412
DIAGONAL FLATS	F1	4	1½"x⅝"x 6'-8"	ST402
	F2 / F2A	7	1½"x⅝"x 6'-10½"	ST402
	F3	1	1½"x⅝"x 6'-11¼"	ST402
	F4	1	1½"x⅝"x 7'-0	ST402
	F5	1	1½"x⅝ x 4'-4"	ST402
PATCH PLATES	PP1	6	2"x¼"x 0'-9"	ST400
	PP2	6	3"x⅜"x 0'-3"	ST400
COVER PLATES	A	1	9"x.0135"x13'-11½	ST303
	B	2	9"x.0135"x15'-2"	ST303
	E	1	9"x.0135"x14'-4½"	ST303
	AS	1	3½"x.0135"x13'-11½"	ST303
	BS	2	3½"x.0135"x15'-2	ST303
	ES	1	3½"x.0135"x14'-4½"	ST303
ANGLE CLIPS ⚠1	C2	4	2½"x1½"x¼"x0'-6	ST 400
	C1	12	2"x1½"x¼"x0'-6"	ST400
DAMPING SADDLE	DUS-3	1	3½"x3½"x⅜"x3'-6⅞"	ST298
	DUS-5	1	3½"x3½"x⅜"x3'-6⅞"	ST299
	DUS-6	3	3½"x3½"x⅜"x4'-4⅞"	ST299
	DUS-7	1	3½"x3½"x⅜"x4'-4⅞"	ST299
MISC. PLATES	PF-1	2	1½"x½"x 0'-4"	ST400
	PF-3	5	3½"x⅜"x 0'-3"	ST400
CONN ANGLE	C5	1	3 x 2 x ⅜" x 0'-3"	ST413
CORNER ANGLE ASSEMBLY	AA20	1	SEE REF. DRWG	ST405
#8 SHEAR ANCHOR	SA2	2	#8 REBAR x 0'-9"	ST 400

NO	DATE	REVISION	BY
⚠1	4-8-69	AS NOTED	G.D.C.

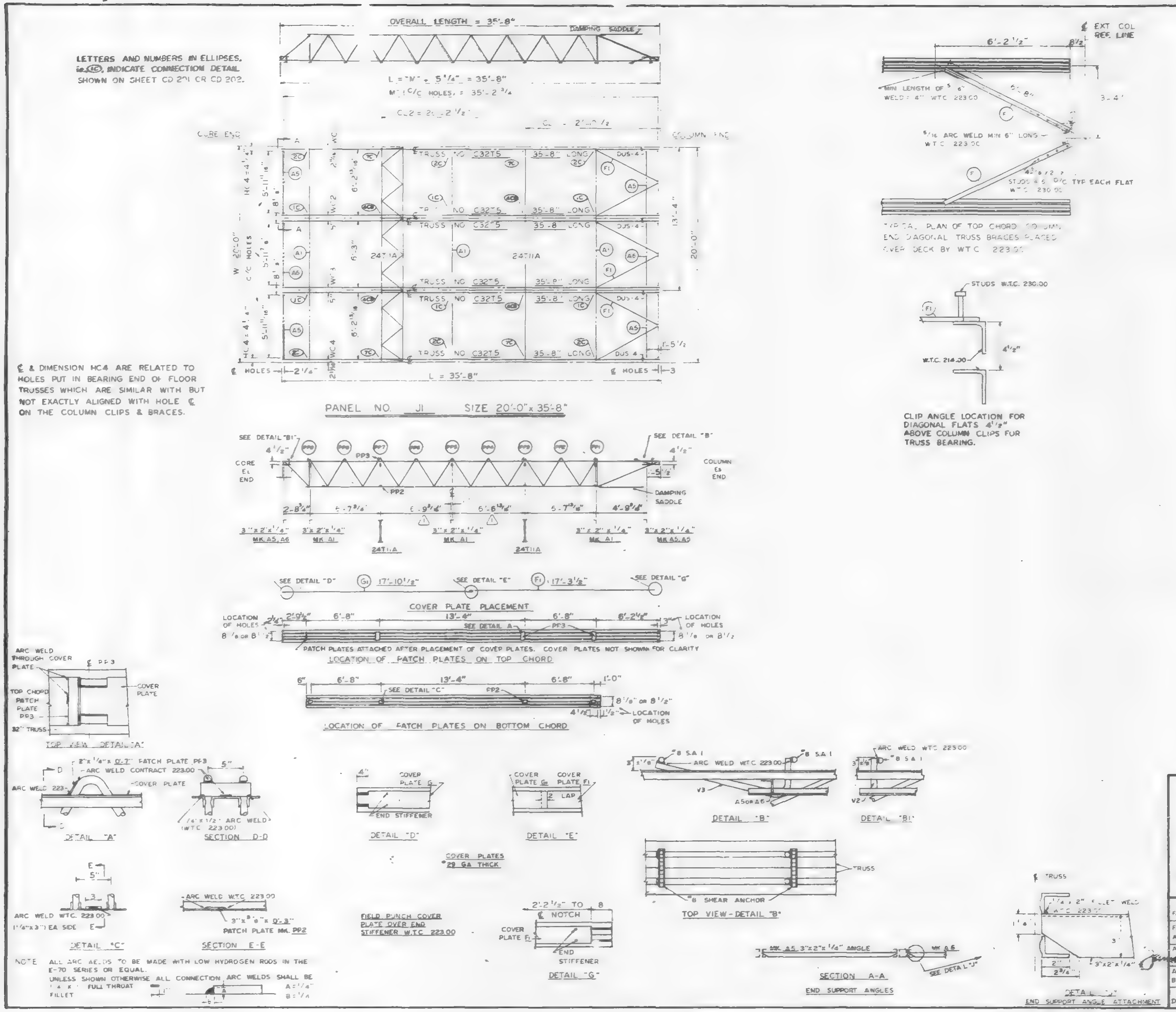
REF. DRWG.			
7-AB1-30	1-6-69	SA-124	1-6-69
7-AB1-31	1-6-69	7-AB4-14,14.1	10-15-68
7-AB1-32	1-6-69	7-AB4-15,16	7-22-68
7-AB2-9	1-6-69	7-AB4-21	7-22-68
7-AB2-16	1-6-69	7-AB4-23,25	7-22-68
7-AB3-41	1-6-69	7-AB4-29	1-3-69
7-AB3-51	1-6-69	7-AB4-39-41,43	7-22-68
7-AB4-3	10-15-68	7-AB4-42	10-15-68
		7-AB4-45	12-20-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 78 (NORTH & SOUTH) 44 (NORTH)
PANEL F3 19'-6" x 59'-0¾"
BLDG. B FLOORS 44 & 78 (EAST & WEST)

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7 AB3-51 | PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. | DATE 4/25/69
DRAWN BY: [illegible] DATE JAN. 17, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR | DATE
CHECKED BY: T.M. CHURA DATE JAN. 17, 1969 | IN CHARGE OF PROD. DEV.
DETAILED BY [redacted]
FABRICATION CONT. NO. W.T.C. 221 | SHEET No. FP-F3



REQUIRED MATERIAL PER PANEL				REF DRWG
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	6	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	T11A	2	2T11A - [illegible] -11"	BT211A
3" x 2" x 1/4" ANGLE	A	3	3" x 2" x 1/4" x 1'9"	ST40[illegible]
	A5	4	3" x 2" x 1/4" x 6'-13/16"	ST403
	A6	2	3" x 2" x 1/4" x [illegible]	ST403
DIAGONAL PLATES	F	6	[illegible] 2 x 5/[illegible]	ST402
PATCH PLATES	PP3	16	2 [illegible] 4 x 0'-7	ST 400
	PP2	16	[illegible] x 3/8 x 0'-3	ST 400
COVER PLATES	G1	4	7" x 0.135" x 17'-10 1/2"	ST 303
	F1	4	7" x 0.135" x 17'-3 1/2"	ST 303
ANGLE CLIPS	C2	2	2 1/2 x 1 1/2 x 1/4" x 6"	ST 400
#8 SHEAR ANCHOR	SA1	12	#8 REBAR x 0'-7"	ST 400
DAMPING SADDLE	DUS-4	4	3 1/2" x 3 1/2" x 3/8" x 3'-6 7/8"	ST298
CONNECTION BAR	CB1	4	1" ● x 1'-3"	ST 400
CONNECTION PLATES	P1	6	3 1/2" x 3/8" x 0'-6 1/2"	ST 400
	P2	4	4 1/2" x .39" x 0'-9"	ST 400
	P3	4	4 1/2" x .39" x 1'-0"	ST 400

NO	DATE	REVISION	BY
1	2-21-68	AS NOTED	G.D.C.

REF DRWS

7-AB4 [illegible]	1-3-68
7-AB4 [illegible]	5-8-68
7-AB4 39-4	1-3-68
SA 24	10-20-67
7-AB3 2	1-3-68
[illegible] 1 & 2	5-10-68
[illegible] 6	2-15-68
7-AB4 42	4-[illegible]-68

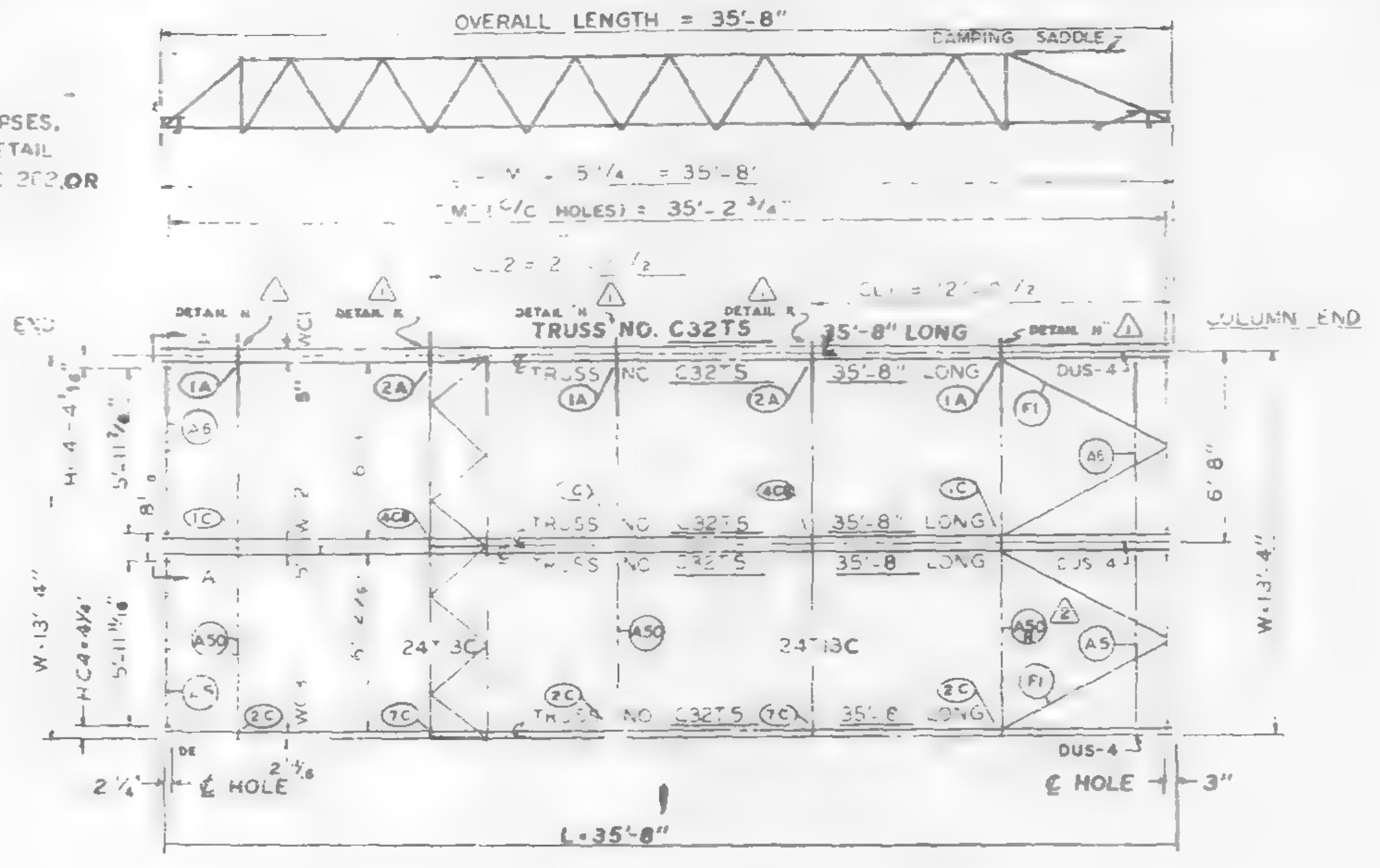
FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG A FLOORS 10-24, 26-40, 50-58, 60-66, 68-74, 84-91 & 93-106 (EAST & WEST) PANEL J1 - 20'-0" x 35'-8"

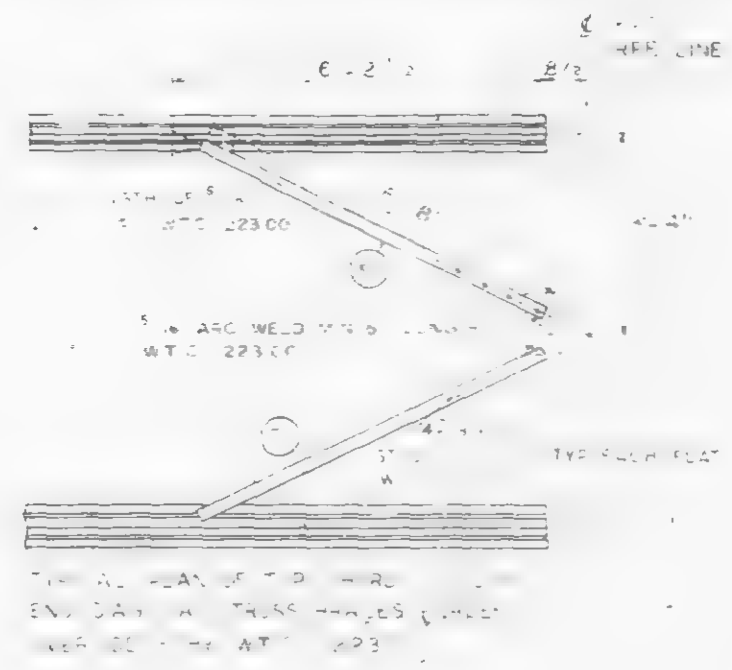
FABRICATION BY LACLEDE STEEL COMPANY

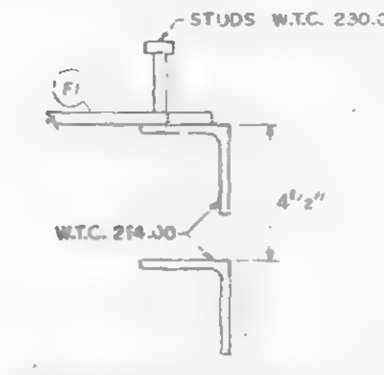
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB3 9 5-10-68	PLATE
APPROVED FOR FABRICATION [signature] FOR PONYA.	DATE 6/28/68	DRAWN BY [initials] DATE APRIL 10, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 10, 1968	
LACLEDE STEEL CO. DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO FP-J1

LETTERS AND NUMBERS IN ELLIPSES, ie (1C), INDICATE CONNECTION DETAIL SHOWN ON SHEET CD 201 OR CD 202, OR CD229



℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

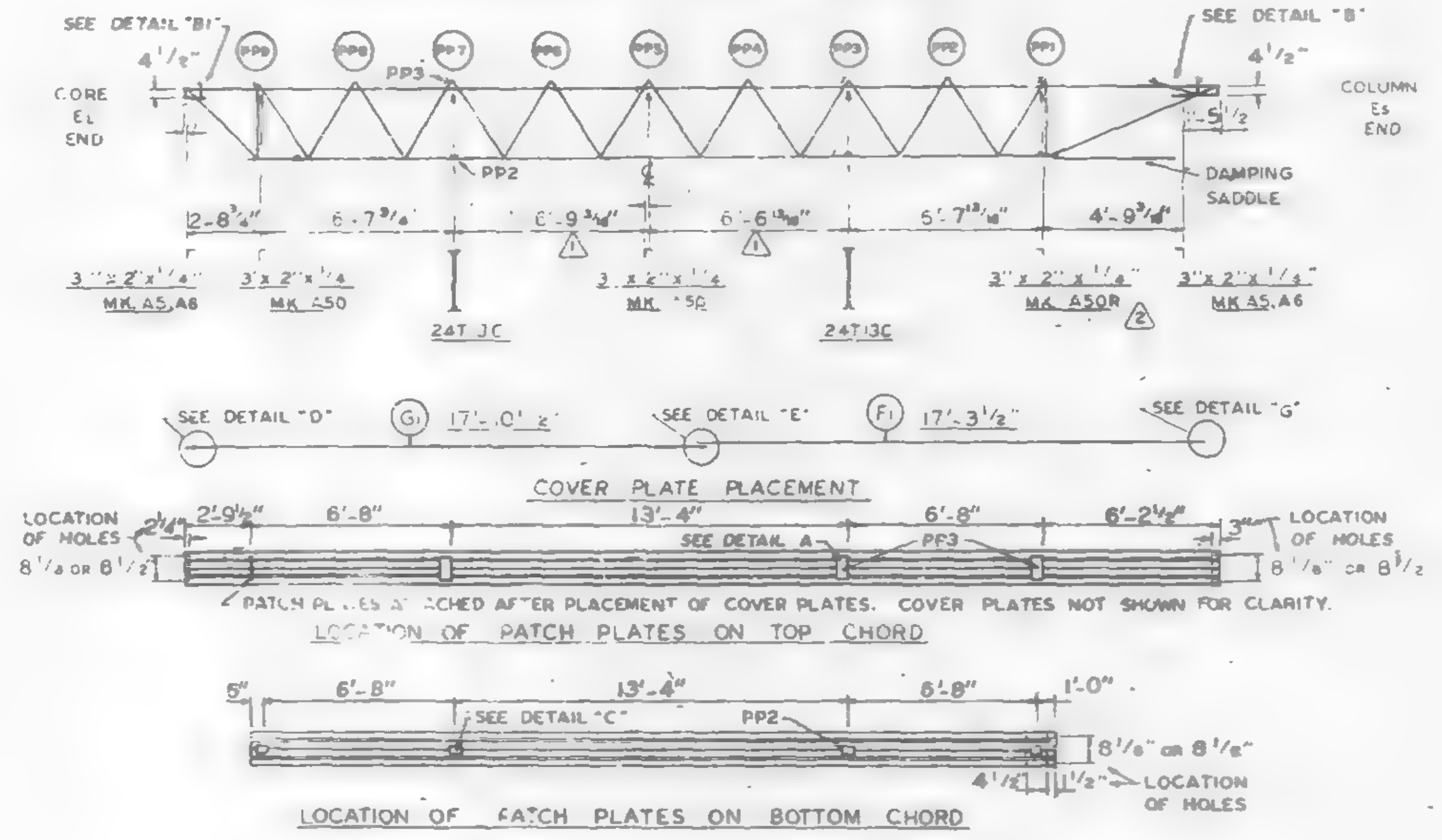


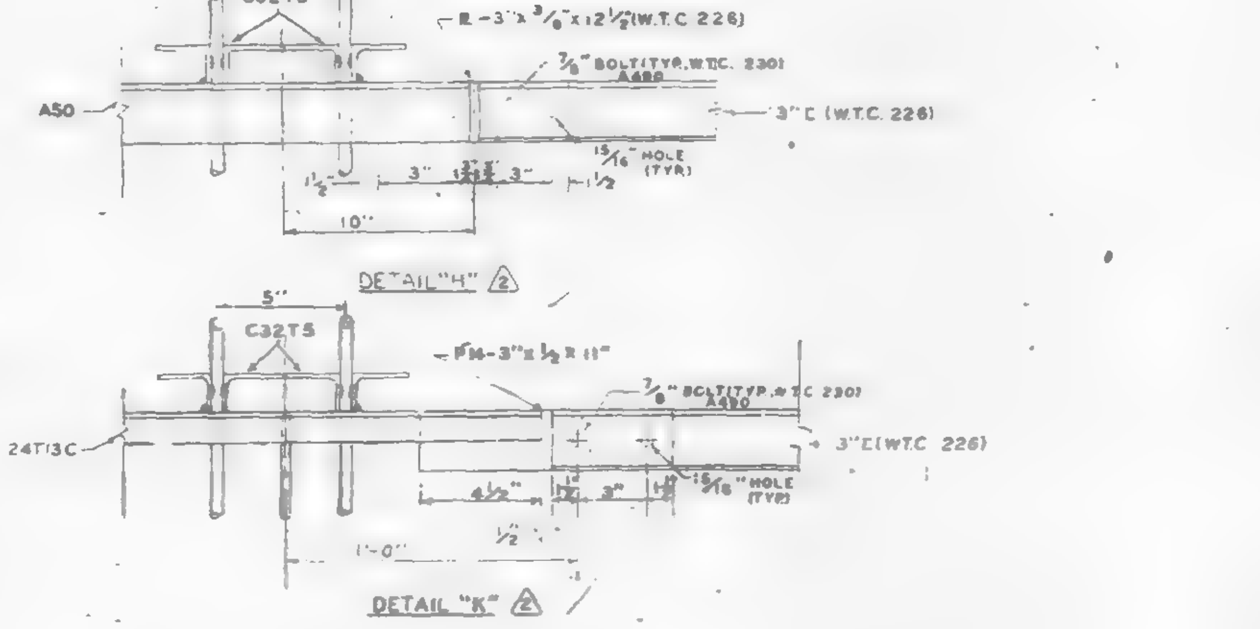


CLIP ANGLE LOCATION FOR DIAGONAL FLATS 4 1/2" ABOVE COLUMN CLIPS FOR TRUSS BEARING.

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	5	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	T13C	2	2T13C - 14'-1 1/2	BT213C
3"x2"x1/4" ANGLE	A50 / A50R	2 / 1	3"x2"x1/4"x14'-1 1/4"	ST413
	A5	2	3"x2"x1/4"x6'-1 13/16"	ST403
	A6	2	3"x2"x1/4"x6'-2"	ST403
[illegible] FLATS	F	4	2"x5/8"x6'-8"	ST402
PATCH PLATES	PP3	12	[illegible]	ST400
	PP2	12	[illegible]	ST400
COVER PLATES	G	3	[illegible] x 0.35 x 7'-0 1/2"	ST303
	F	3	7 x 0.35 x 7'-3 1/2"	ST303
ANGLE CLIPS	C2	8	2 1/2" x 1 1/2" x 1/4" x 6"	ST400
#8 SHEAR ANCHOR	SA1	9	#8 REBAR x [illegible]	ST400
DAMPING SADDLE	DUS-4	4	3 1/2"x3 1/2"x3/8"x3'-6 7/8"	ST298
CONNECTION BAR	CB1	2	1" ⌀ x 1'-3"	ST400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 0'-6 1/2"	ST400
	P2	2	4 1/2" x .39" x 0'-9"	ST400
	P3	2	4 1/2" x .39" x 1'-0"	ST400
	P14	2	3" x 1/2" x 0'-11"	ST409

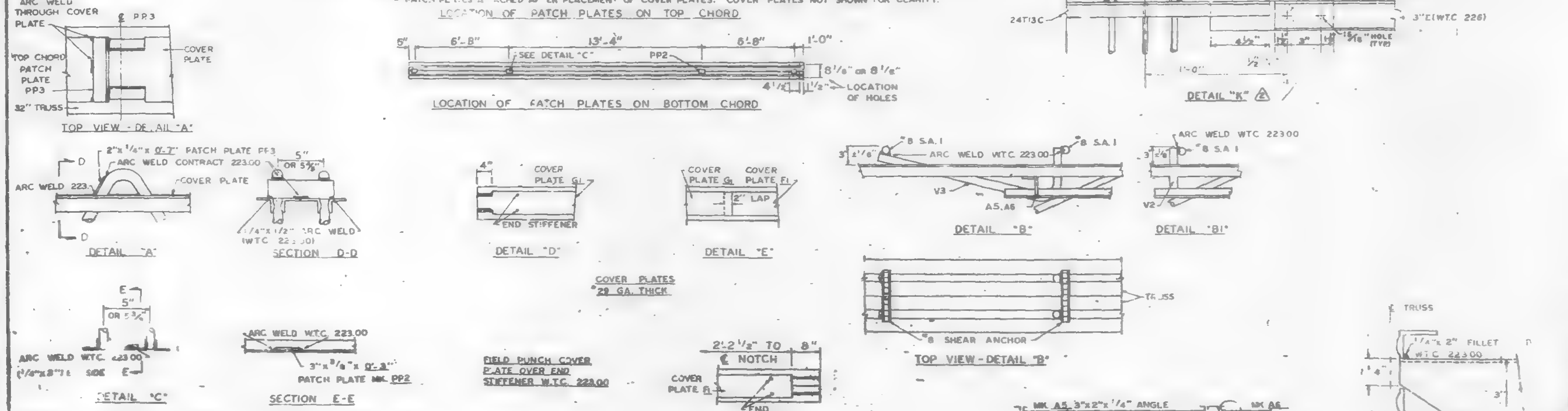
PANEL NO. M1 SIZE 13'-4" x 35'-8"





NO.	DATE	REVISION	BY
2	4-18-69	AS NOTED	G.D.C.
1	3-11-69	AS NOTED	G.D.C.

REF DRWG	
7-AB3-22	7-22-68
7-AB4-3 & 31	1-3-68
7-AB4-5 & 16	7-22-68
7-AB4-39-41	7-22-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-11 & 12	7-22-68
7-AB2	7-22-68
7-AB4-42	10-15-68



NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE FULL THROAT

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

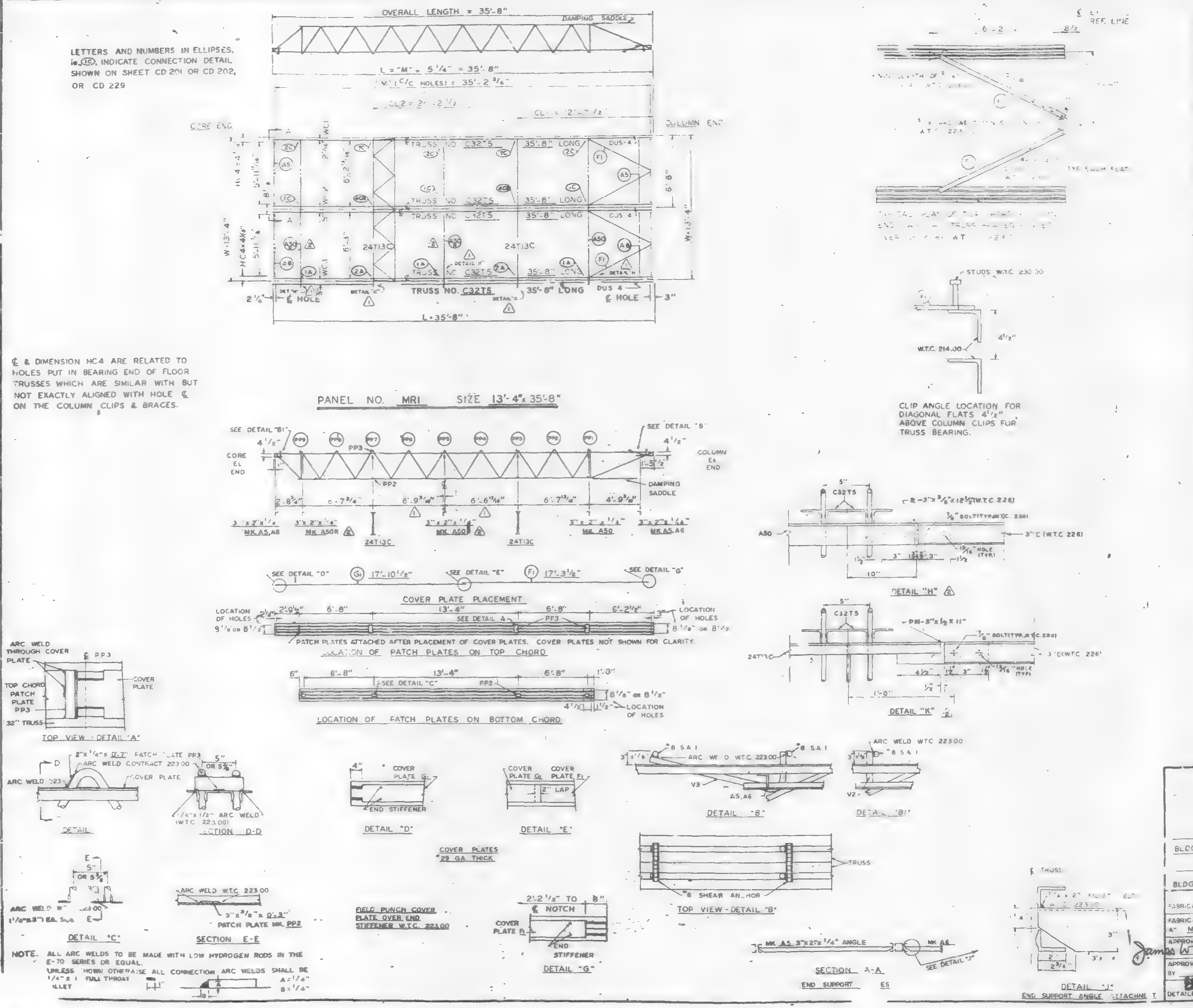
BLDG. A FLOORS 45-49 (WEST), 80-83 (EAST)

PANEL M1 - 13'-4" x 35'-8"

BLDG. B FLOORS 45-49 (SOUTH) 80-83 (NORTH) (2)

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7 AB3-22	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.	DATE 4/25/69	DRAWN BY [illegible] DATE 1-29-69	
APPROVED FOR FABRICATION BY [illegible]	DATE	CHECKED BY T.M. CHURA DATE 1-29-69	
DETAILED BY [illegible]		FABRICATION CONT NO. WTC 221	SHEET NO. FP-M1



LETTERS AND NUMBERS IN ELLIPSES, ie. (1C), INDICATE CONNECTION DETAIL SHOWN ON SHEET CD 201 OR CD 202, OR CD 229

℄ & DIMENSION HC4 ARE RELATED TO HOLES PUT IN BEARING END OF FLOOR TRUSSES WHICH ARE SIMILAR WITH BUT NOT EXACTLY ALIGNED WITH HOLE ℄ ON THE COLUMN CLIPS & BRACES.

NOTE. ALL ARC WELDS TO BE MADE WITH LOW HYDROGEN RODS IN THE E-70 SERIES OR EQUAL. UNLESS SHOWN OTHERWISE ALL CONNECTION ARC WELDS SHALL BE 1/4" x 1 FULL THROAT FILLET A = 1/4" B = 1/4"

REQUIRED MATERIAL PER PANEL				REF. DRWG.
MATERIAL	MK	PCS	SIZE	
FLOOR TRUSSES	T5	5	C32T5 - 35'-8"	ST205
BRIDGING TRUSSES	T13C	2	2T13C 14'-1 1/2	BT213C
3 x x 1/4 ANGLE (2)	A50 / A50R	1 / 2	3" x 2" x 4" x 14'-1 1/4"	ST413
	A5	2	3" x 2" x 1/4" x 6'-1 13/16"	ST403
	A6	2	3" x 2" x 1/4" x 8'-2"	ST403
DIAGONAL FLATS	F	4	1 2" x 5 8 x 6-8	ST402
PATCH PLATES	PP3	12	2" x 1 4 x 0'-7"	ST400
	PP2	12	3 x 3 8" x 0'-3"	ST400
COVER PLATES	G	3	7" x 0.135 x 7'-0 2"	ST303
	F1	3	7" x 0.135 x 7'-3 2	ST303
ANGLE CLIPS	C2	8	2 1/2 x 1 1/2 x 1/4 x 6"	ST400
#8 SHEAR ANCHOR	SA1	8	#8 REBAR x 0'-7"	ST400
DAMPING SADDLE	DUS-4	3	3 2" x 3 2 x 3 8 x 3 6 7/8	ST298
CONNECTION BAR	CB1	2	1" Ø x 1'-3"	ST 400
CONNECTION PLATES	P1	3	3 1/2" x 3/8" x 0'-6 1/2"	ST400
	P2	2	4 1/2" x .39" x 0'-9"	ST400
	P3	2	4 1/2" x .39" x 1'-0"	ST400
	P4	2	3" x 1 2" x 0'-11"	ST409

NO	DATE	REVISION	
2	4-18-69	AS NOTED	G.D.C.
1	3-11-69	AS NOTED	G.D.C.

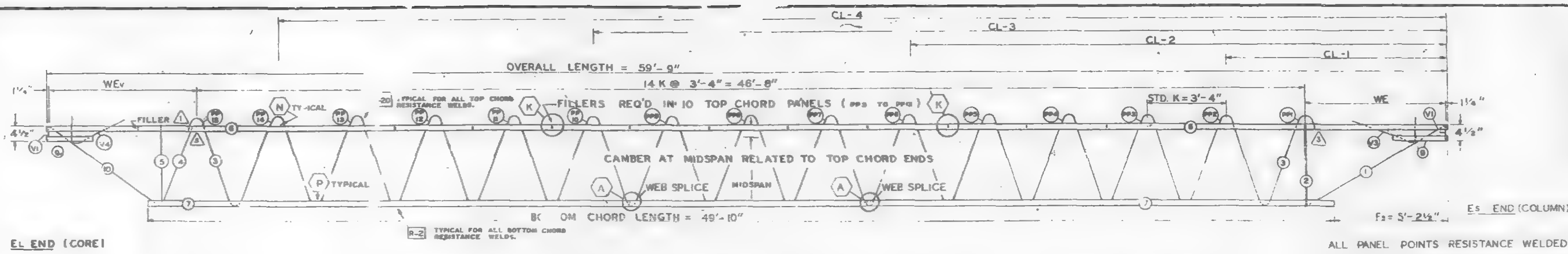
REF. DRWG.

7-AB3-23	7-22-68
7-AB4-3 & 3.1	1-3-68
7-AB4-15 & 16	7-22-68
7-AB4-39-41	7-22-68
SA-124	1-6-69
7-AB3-2	1-3-68
7-AB1-11 & 12	7-22-68
7-AB2	7-22-68
7-AB4-42	10-15-68

FLOOR PANEL DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

BLDG. A FLOORS 46-49 (EAST), 79-83 (WEST)
PANEL MR1 - 13'-4" x 35'-8"
BLDG. B FLOORS 46-49 (NORTH) 79-83 (SOUTH) (2)

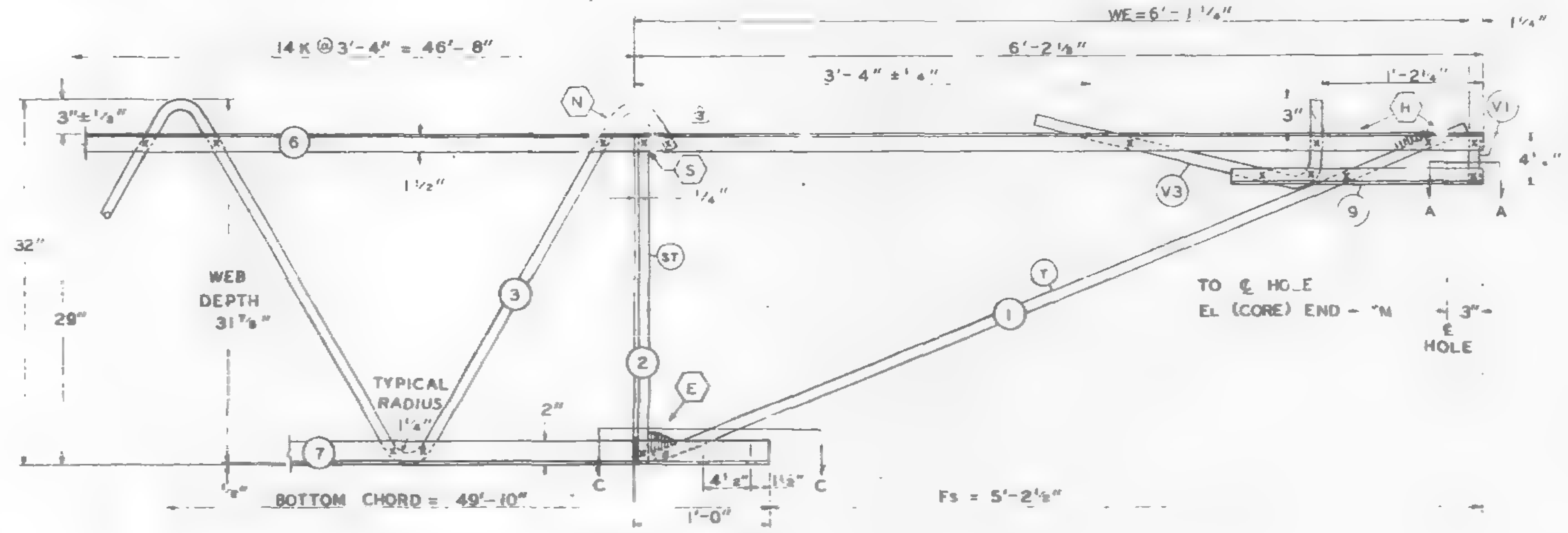
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB3-23 PLATE
APPROVED FOR FABRICATION James White FOR PONYA DATE 4/25/69
DRAWN BY DATE 1-29-69
APPROVED FOR FABRICATION BY LACLEDE STEEL CO. DATE
CHECKED BY T.M. CHURA DATE 1-29-69
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO. FP-MR1



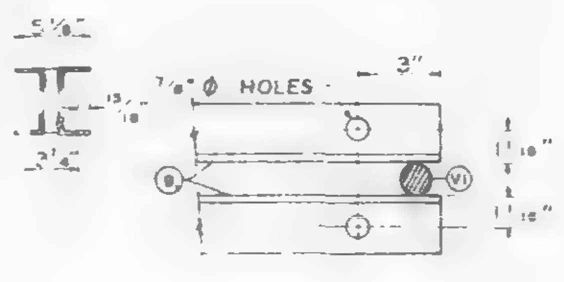
TRUSS ELEVATION

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (mm).
ALL WELD DETAILS SHOWN ON SHEETS ST290
AND ST291.

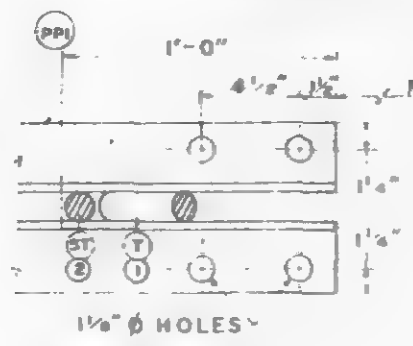
SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R-2].



Es END (COLUMN)

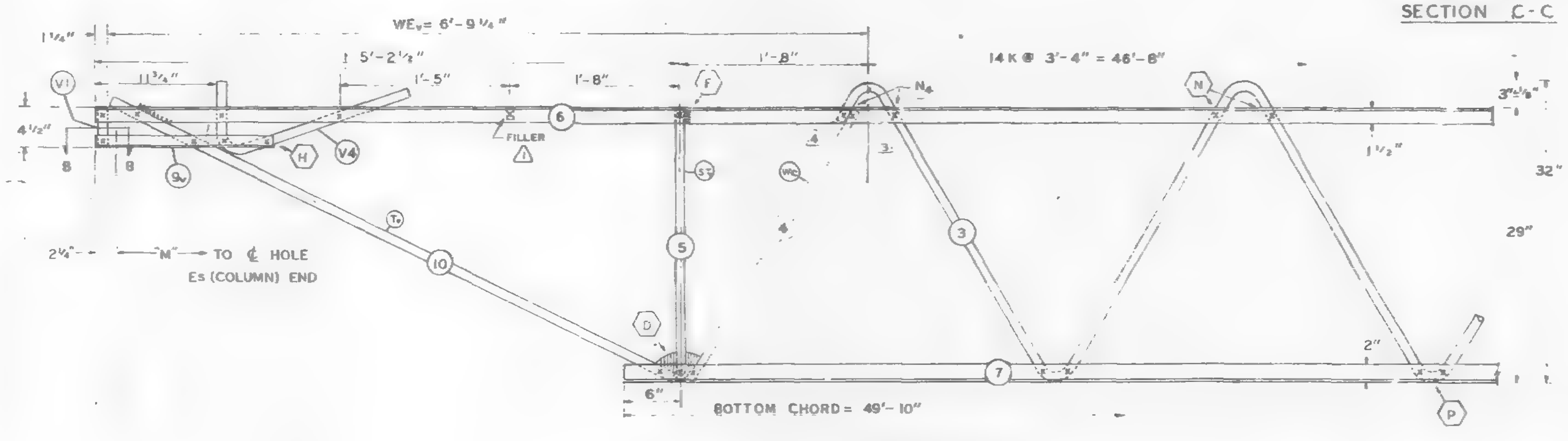


SECTION A-A

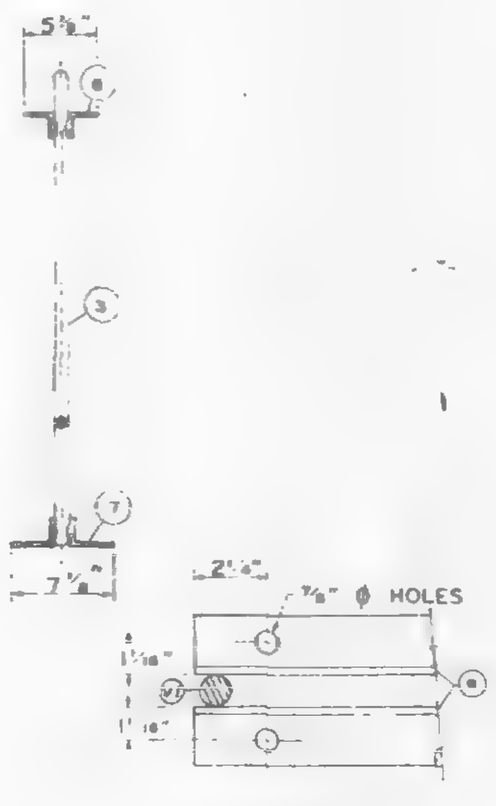


SECTION C-C

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL. END) IN FIELD.
ASSEMBLY BY CONTRACT WTC 223.00.



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY
4	12-6-68	AS NOTED	G.D.C
3	10-7-68	AS NOTED	G.D.C.
2	6-22-68	CAMBER, REF DRWG. DATE	T.M.C.
1	3-13-68	FILLER AND WELD DETAIL	J.R.P.

FABRICATION REQUIRMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN (2)	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	31 [illegible]"	± 1/4"

(3) REF. DRWGS.

7-ABI-2	7-22-68
7-ABI-52	2-15-68
7-AB4-50	8-1-68
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67
7-ABI-53 (2)	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C-C HOLES	TRUSS DATA	
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA			
C32TIA-599	6	A242	2"x1½"x.25"	59'-9"	7	A36	3"x2"x.37"	49'-10"	3	A36	1.09	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.09	59'-3¾"		

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3		
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
	C32TIA-599	9	A242	2"x1½"x.25"	1'-10"	6'-1¼"	1	A242	1.14	6'-5"	2	A36	1.09	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			END STIFFENER MK. [illegible]			END STIFFENER MK. V4			WEB "WC"					WEB "WT"				
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH
	C32TIA-599	9v	A242	2"x1½"x.25"	1'-7"	6'-9¼"	10	A242	1.14	5'-6½"	5	A242	1.14	2'-4⅞"	A242	1.14	4[illegible]	—		—	A242	1.14	2'-2¼"	4	A242	1	1.14	3'-10"		—	—	—	—

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

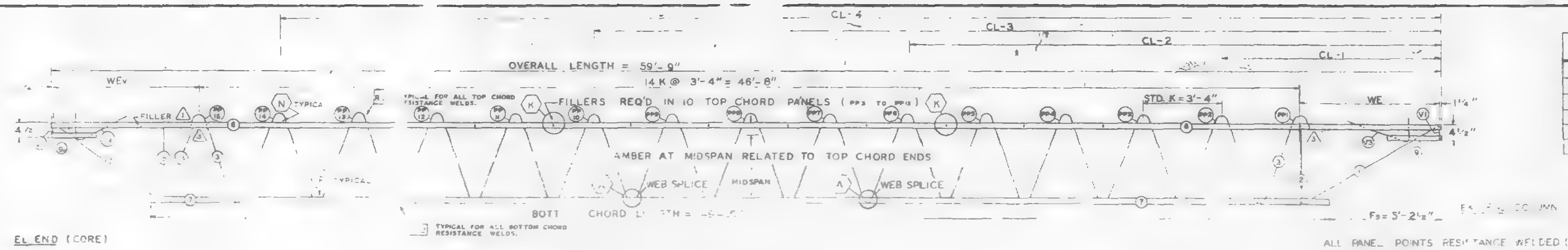
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C32TIA 59'-9" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO 7-ABI-2 7-AB3-2	PLATE
APPROVED FOR FABRICATION James [illegible] FOR P.O.N.Y.A.	DATE 12/11/68	DRAWN BY [illegible] DATE: FEB. 24, 1968	
APPROVED FOR FABRICATION BY A.C. WEBER FOR FABRICATOR	DATE.	CHECKED BY J.R. PAUL DATE FEB. 24, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO. ST201A

FABRICATION REQUIRMENTS

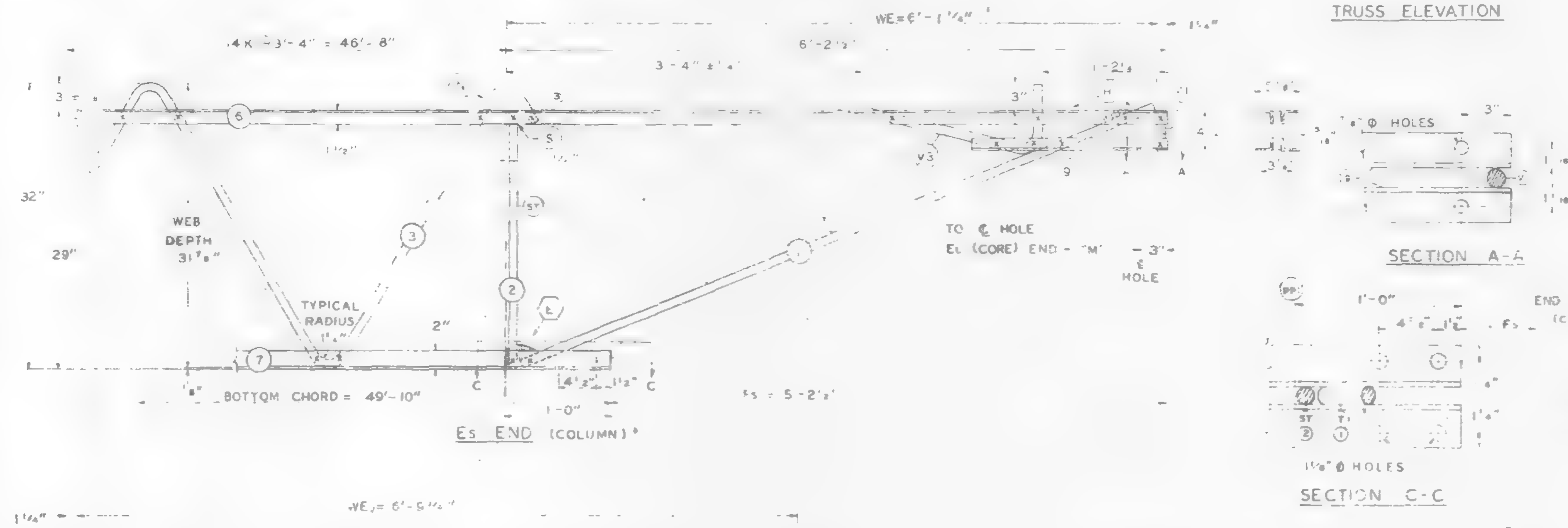
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN (2)	2"	± [illegible]
DESIGN DEPTH	29"	± 1 [illegible]
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'	± 3/8"
WEB DEPTH	3.	± 1/4'



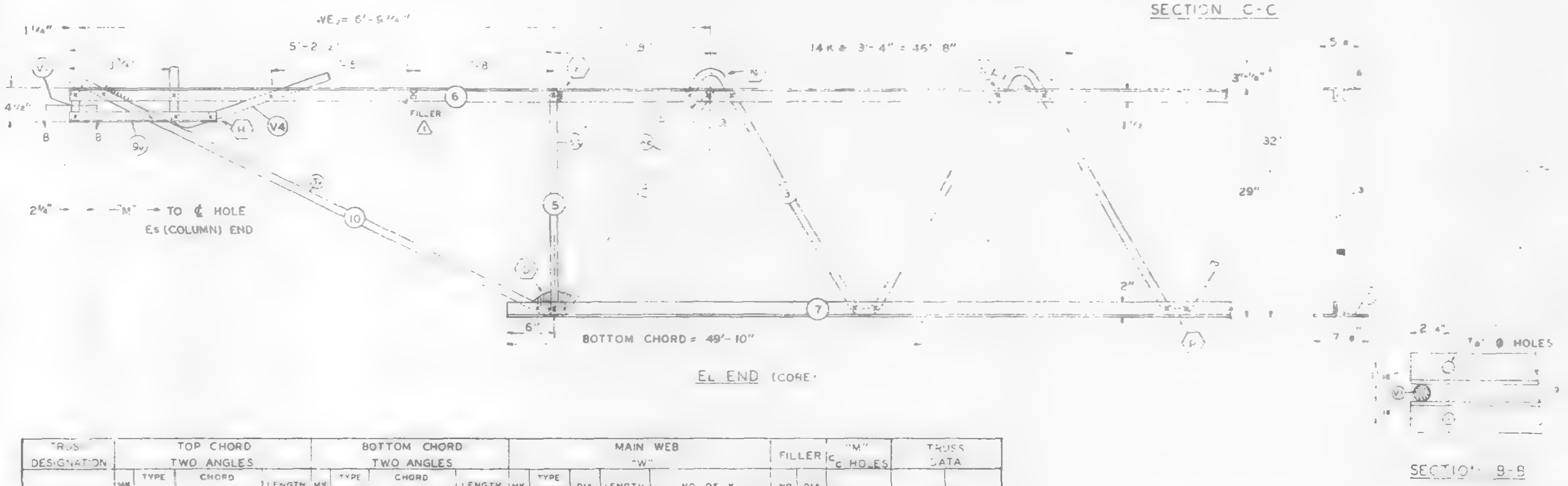
ALL PANEL POINTS RESISTANCE WELDED (4) ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. ALL WELD DETAILS SHOWN ON SHEET ST290 AND ST291.

SEE SHEET ST295 FOR V1, V3, & V4 DETAIL LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).

(1) LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM [illegible]



DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD COL END IN FIELD ASSEMBLY [illegible]



NO.	DATE	REVISION	BY
3	10-7-68	AS NOTED	G.D.C.
2	5-22-68	CAMBER, REF DRWG DATE	T.M.C.
1	3-19-68	FILLER AND WELD DETAIL	J.R.P.

(3) REF. DRWGS.

7-AB1-2	7-22-69
7-AB1-52	2-15-68
7-AB4-50	8-1-68
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67
7-AB1-53 (2)	7-22-68

PAINT

LACLEDE ELECTROCOAT

RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" C-C HOLES	TRUSS DATA
C32T1A-599	6	A242	2"x1½"x.25"	59'-9"	7	A36	3"x2"x.37"	49'-10"	3	A36	1.09	88'-1¼"	14 @ 3'-4" = 46'-8" (3)	11	1.09	59'-3¾"	

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH
C32T1A-599	9	A242	2"x1½"x.25	1'-10"	6'-1¼"		A242	1.14	6'-5"	2	A36	.09	2'-4⅜" (3)	A242	1.14	4⅜"	A242	1.14	2'-9½"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA.	LENGTH	STIFFENER MK V1 TYPE STEEL	DIA.	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA.	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA.	LENGTH
C32T1A-599	9	A242	2"x1½"x.25	1'-7"	6'-9½"	10	A242	1.14	5'-6½"	5	A242	1.14	2'-4⅜"	A242	1.14	4⅜"	—	—	——	A242	1.14	2'-2½"	4	A242	1	1.14	2'-10" (3)	—	——	—	—	——

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

STEEL TRUSS DETAILS

FOR

WORLD TRADE CENTER N Y C

FOR

THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T1A 59'-9" OVERALL

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO 7-AB1-2 7-AB3-2 PLATE

APPROVED FOR FABRICATION [signature] FOR P.O.N.Y.A. DATE 10/14/68

DRAWN BY: [initials] DATE: FEB. 24, 1968

APPROVED FOR FABRICATION BY A.C. WEBER FOR FABRICATOR DATE.

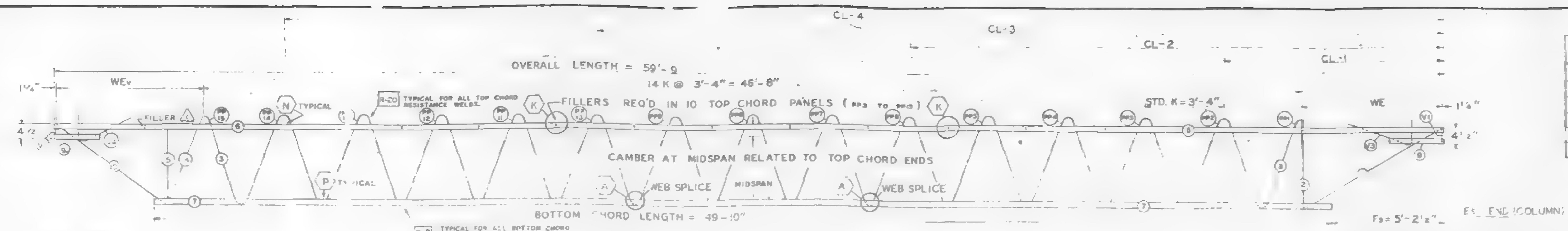
CHECKED BY J.R. PAUL DATE. FEB. 24, 1968

IN CHARGE OF PROD. DEV.

DETAILED BY. A.C. WEBER

FABRICATION CONT. NO. W.T.C 221

SHEET NO. ST201A



EL END (CORE)

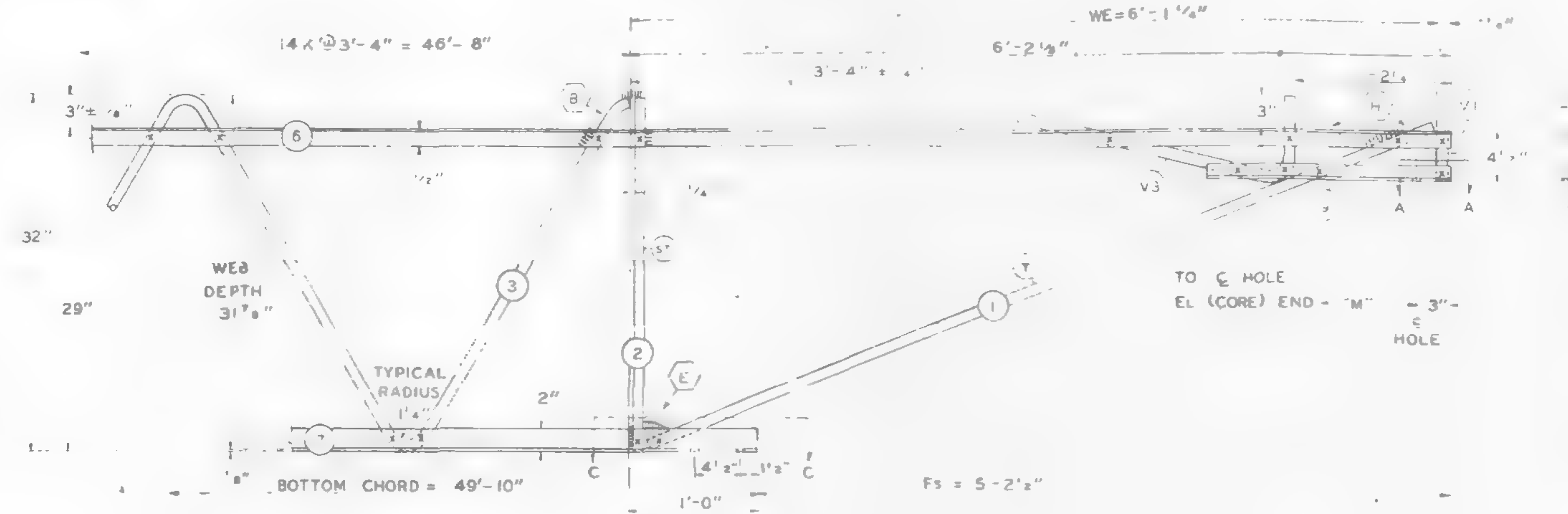
Fs = 5'-2½" Es END (COLUMN)

TRUSS ELEVATION

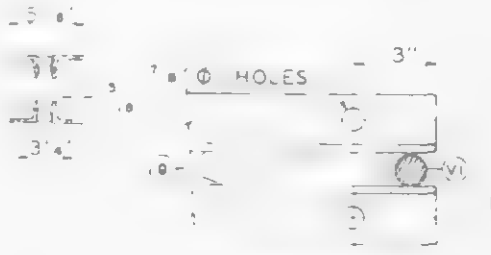
ALL PANEL POINTS RESISTANCE WELD'D.
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290
AND ST291.

SEE SHEET ST295 FOR V1, V3, & 4 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
⚠1 LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R-2].

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN ⚠2	2"	± 3/8"
DESIGN DEPTH	[illegible]	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

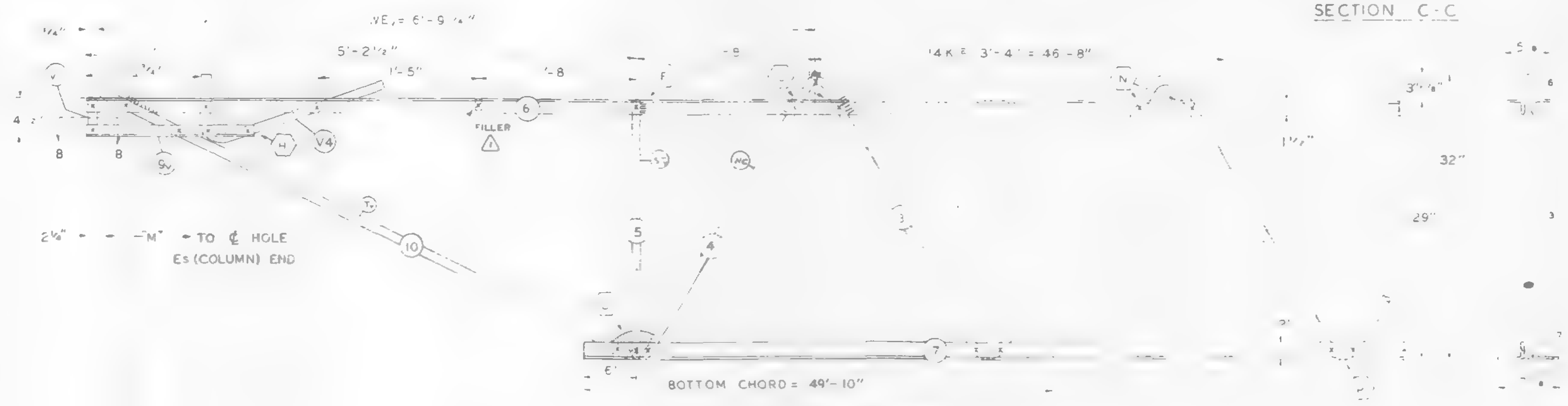


Es END (COLUMN)


SECTION A-A

SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



EL END (CORE)

SECTION B-B

NO	DATE	REVISION	BY
2	6-22-68	CAMBER, REF DRWG DATE	TMC
1	3-19-68	FILLER AND WELD DETAIL	JRP

REF. DRWGS.

7-AB1-2	2-15-68
7-AB1-52	[illegible]-5-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67
7-AB1-53 ⚠2	4-[illegible]-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLES	TRUSS DATA	
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA			
C32T1A-599	6	A242	2"x1½"x.25"	59'-9"	7	A36	3"x2"x.37"	49'-10"	3	A36	1.09	87'-2½"	14 @ 3'-4" = 46'-8"	11	1.09	59'-3¾"		

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3		
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
	C32T1A-599	9	A242	2"x1½"x.25"	1'-10"	6'-1¼"	1	A242	14	6'-5"	2	A36	1.09	2'-7⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"

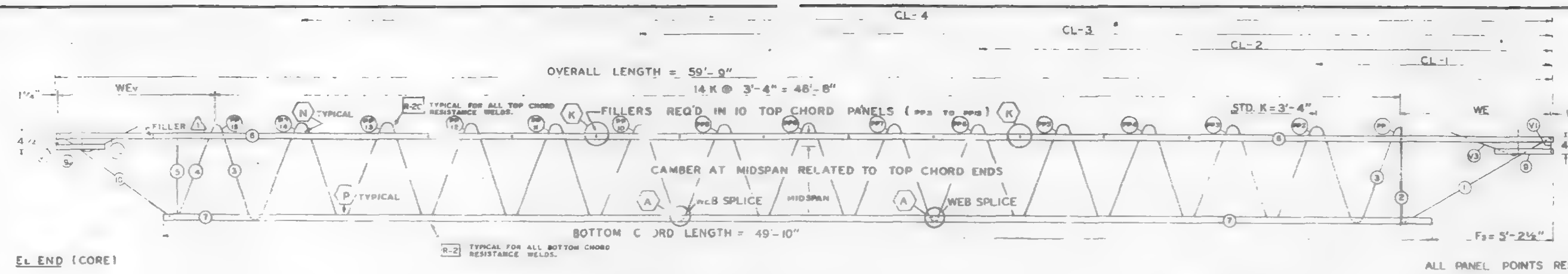
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE_v	DIAGONAL "T_v" STRUT				VERTICAL "ST_v" STRUT				END STIFFENER MK V1			END STIFFENER MK 2			END STIFFENER MK V4			WEB "Wc"					WEB "WT"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T1A-599	9	A242	2"x1½"x.25"	[illegible]	6'-9¼"	10	A242	1.14	5'-6½"	5	A242	1.14	2'-4¾"	A242	1.14	4¾"	—	—	—	A242	1.14	2'-2½"	4	A242	1	1.14	3'-0½"	-	-	—	-	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C32T1A 59'-9" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB1-2 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY JW FOR PONYA — DATE 6/25/68	DRAWN BY [illegible] DATE FEB. 24, 1968
APPROVED FOR FABRICATION BY A C WEBER FOR FABRICATOR — DATE	CHECKED BY J R PAUL DATE FEB. 24, 1968 — IN CHARGE OF PROD DEV
DETAILED BY A C WEBER	FABRICATION CONT NO WTC 221 — SHEET NO ST201A



EL END (CORE)

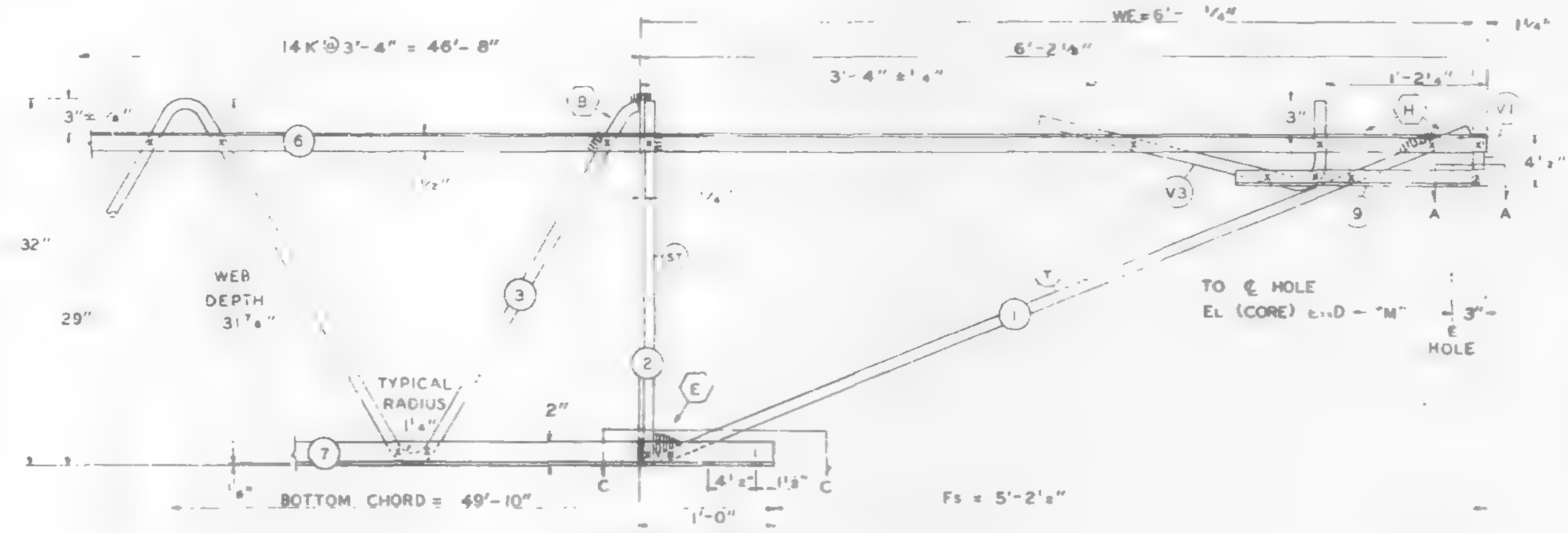
Es END (COLUMN)

TRUSS ELEVATION

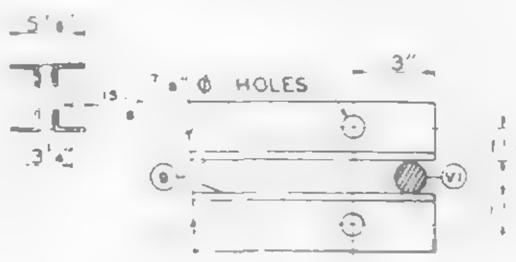
ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬).
ALL WELD DETAILS SHOWN ON SHEETS ST290
AND ST291.

SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., ⟨A⟩.
⚠1 LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R-2].

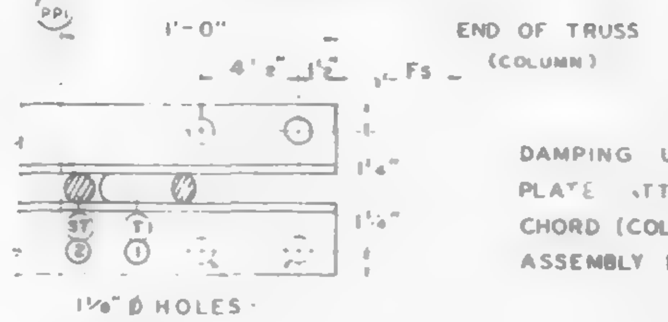
FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	[illegible]	± 1/4"
PANEL "K"	3'-4"	± 1/4'
OVERALL LENGTH	59'-9"	[illegible]
WEB DEPTH	[illegible]	1/4"



Es END (COLUMN)

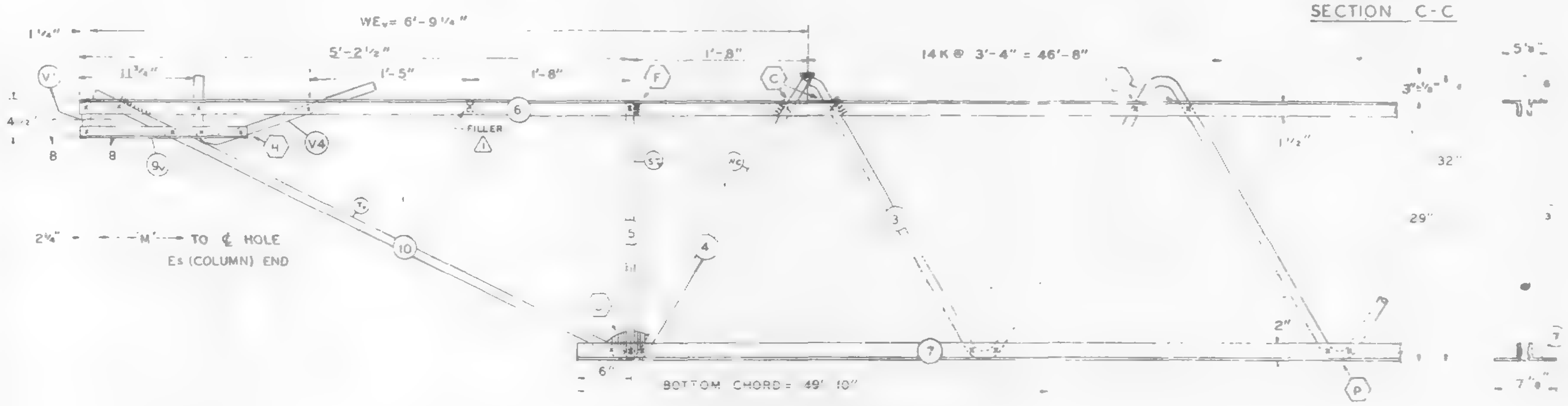


SECTION A-A



SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



EL END (CORE)

SECTION B-B

NO	DATE	REVISION	BY
⚠1	3-19-68	FILLER AND WELD DETAIL	J.R.P.

REF. DRWGS.-

7-AB1-2	2-15-68
7-AB1-52	2-.5-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67
7-AB1-53	1-3-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ ℄ HOLES	TRUSS DATA	
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA.			
C32T1A-599	6	A242	2"x1½"x.25"	59'-9"	7	A36	3"x2"x.37"	49'-10"	3	A36	1.09	87'-2½"	14 @ 3'-4" = 46'-8"	11	1.09	59'-3¾"		

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3		
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL		LENGTH
	C32T1A-599	9	A242	2"x1½"x.25"	1'-10"	6'-1¼"	1	A242	1.14	6'-5"	2	A36	1.09	2'-7⅞"	A242	1.14	4⅜"	A242		[illegible]

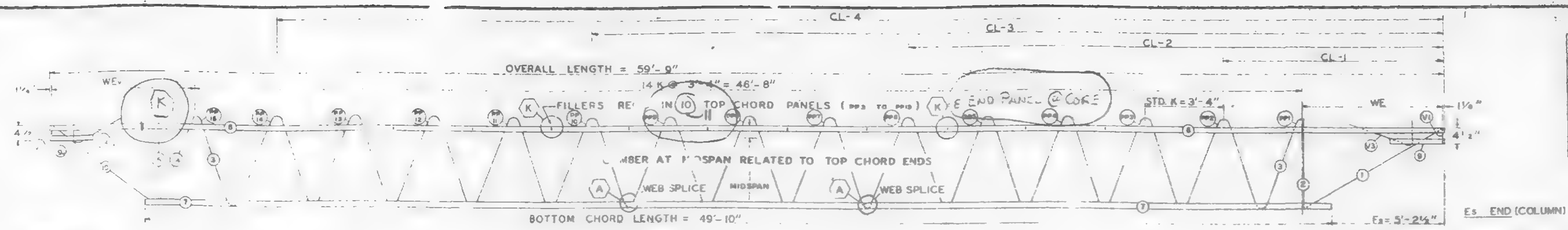
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "WC"					WEB "WT"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T1A-599	9	A242	2"x1½"x.25"	1'-7"	6'-9¼"	10	A242	1.14	5'-6½"	5	A242	1.14	2'-4¾"	A242	1.14	4⅓"	—	—	—	A242	1.14	2'-2¼"	4	A242	1	1.14	3'-0½"	—	—	—	-	—

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C32T1A 59'-9" OVERALL
WORLD TRADE CENTER TOWERS A-B

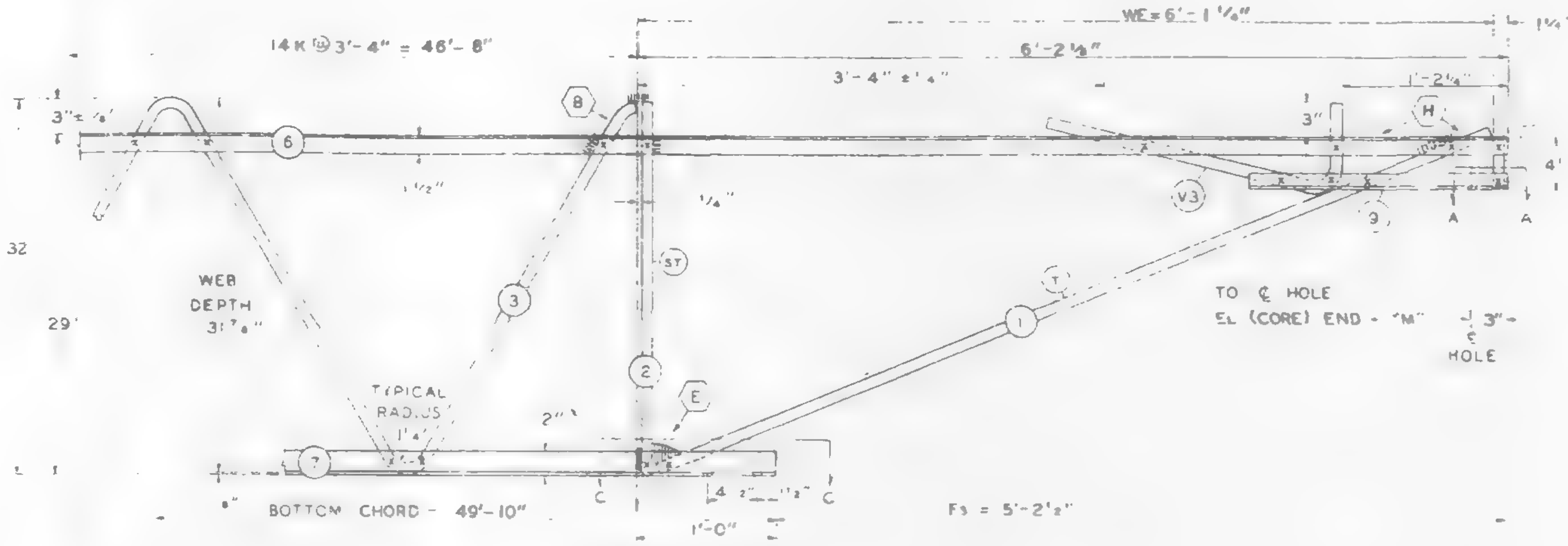
FABRICATION BY: LACLEDE STEEL COMPANY			
FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-2 7-AB3-2	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.	DATE 3/26/68	DRAWN BY: [illegible] DATE: FEB. 24, 1968	
APPROVED FOR FABRICATION BY A.C. WEBER FOR FABRICATOR	DATE	CHECKED BY: J.R. PAUL DATE: FEB. 24, 1968	IN CHARGE OF PROD. E.E.V.
DETAILED BY: A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST201A



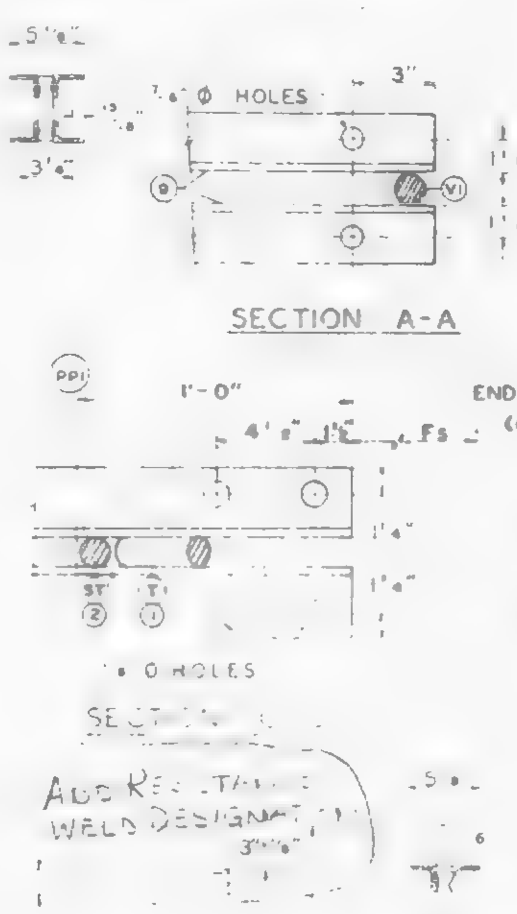
TRUSS ELEVATION

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± [illegible]
DESIGN DEPTH	29"	± ¼"
PANEL "K"	[illegible]	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8
WEB DEPTH	31 7/8"	± 1/4

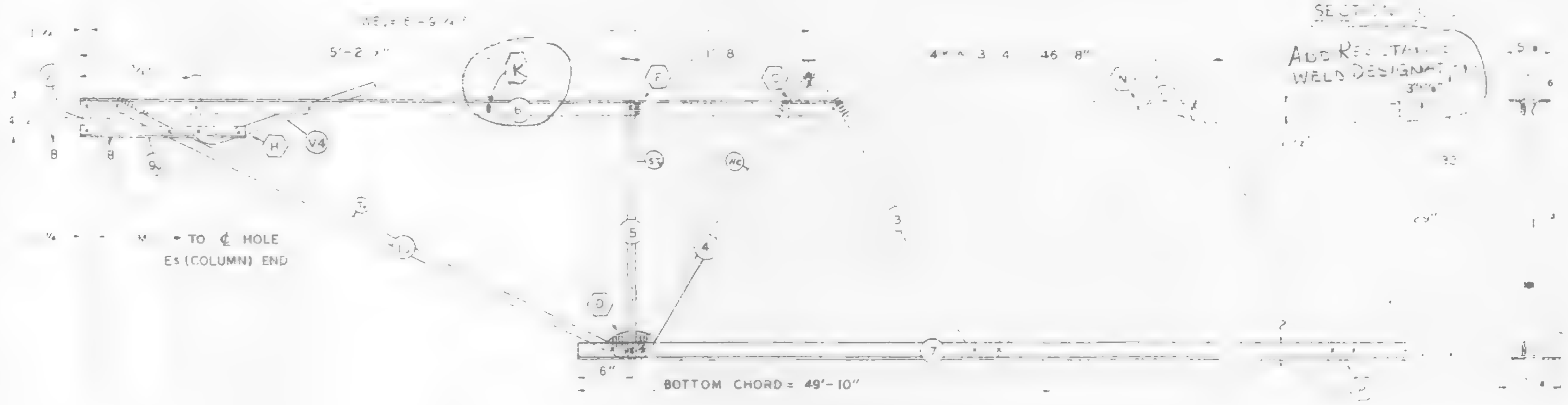
ALL PANEL POINTS RESISTANCE WELDED (R).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290
AND ST291.
BOXED IN LETTERS INDICATE WELD DETAIL. (A)



Es END (COLUMN)



DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD.
ASSEMBLY BY CONTRACT WTC 223.00



EL END (CORE)

SECTION B-B

REF DRWGS.

7-AB1-2	2-15-68
7-AB1-52 & 53	1-3-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO. OF K	FILLER NO	DIA	"M" ℄ HOLES	TRUSS DATA	
C32T1A-599	6	A242	2"x1½"x.25"	59'-9"	7	A36	3"x2"x.37"	49'-10"	3	A36	1.09	87'-2½"	14 @ 3'-4" = 46'-8"	10 (11)	1.09	59'-3¾"		

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V. TYPE STEEL	DIA	LENGTH
C32T1A 599	9	A242	2"x[illegible]x25"	[illegible]-0	6-1[illegible]		A242	1.14	6'-5"	2	A36	1.09	2'-7⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T1A-599	9	A242	2"x2"x.25"	1'-7"	6'-9¾"	10	A242	1.14	5'-6½"	5	A242	1.14	2'-4¾"	A242	1.14	4⅜"	—	-	—	A242	1.14	2'-2½"	4	A242	1	1.14	3'-0½"	—	—		·	—

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

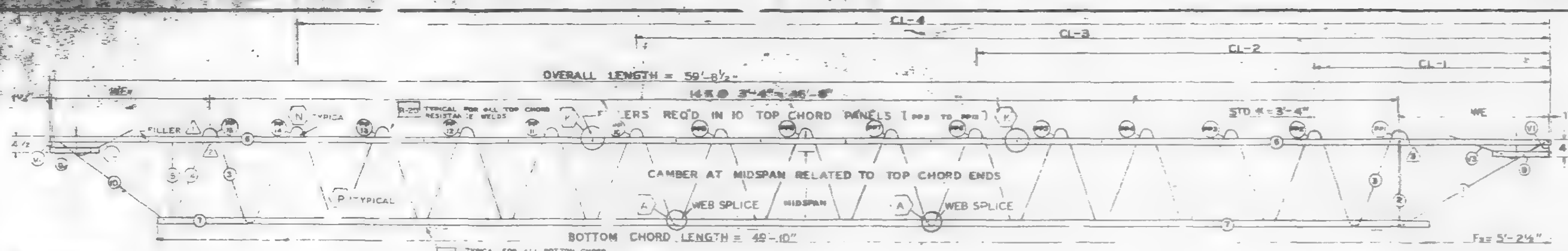
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-8½"	5'-2½"

SKILLING HELLE CHRISTIANSEN ROBERTSON
Structural & Civil Engineers
3/20/68 SK

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C32T1A 59'-9" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-2 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE
DRAWN BY: L.B. DATE: FEB. 24, 1968
APPROVED FOR FABRICATION BY A C WEBER FOR FABRICATOR DATE
CHECKED BY J.R. PAUL DATE FEB. 24, 1968
IN CHARGE OF PROD. DEV
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO ST201A

FABRICATION DATA		
DESIGN DEPTH		
PANEL "K"	3'-4"	
OVERALL LENGTH	59'-8 1/2"	
WEB DEPTH	31 1/2	



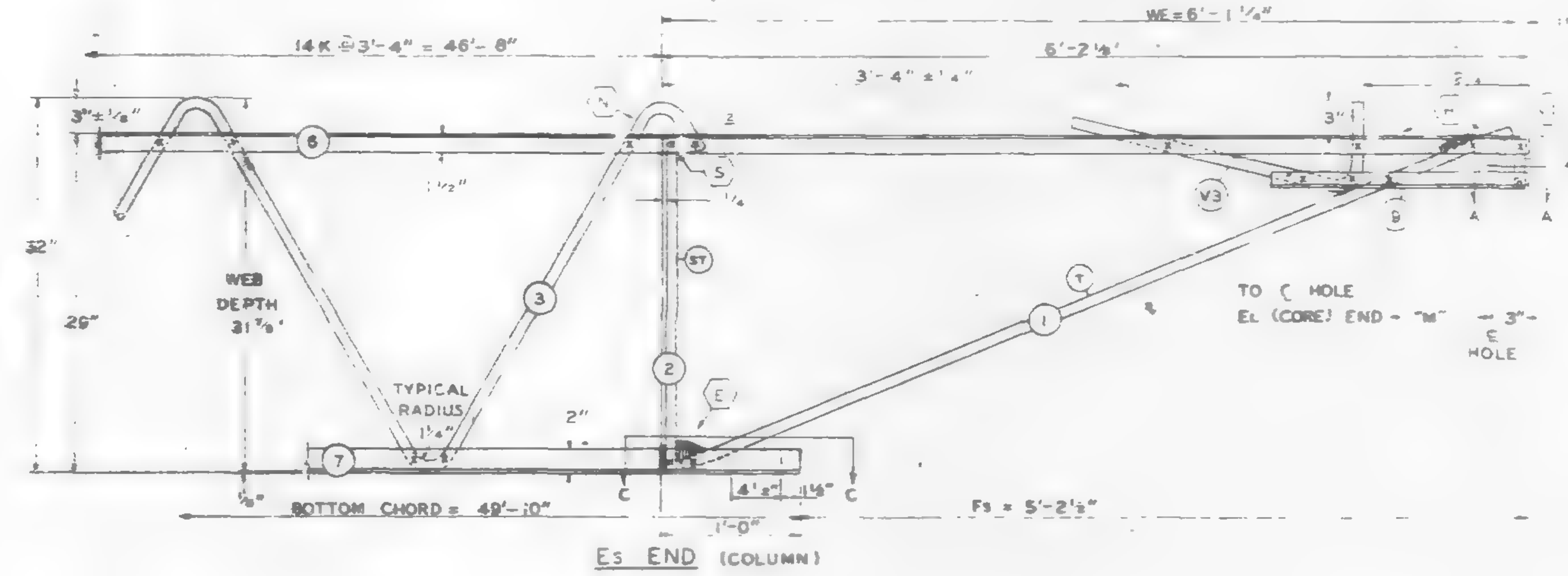
EL END (CORE)

Es END (COLUMN)

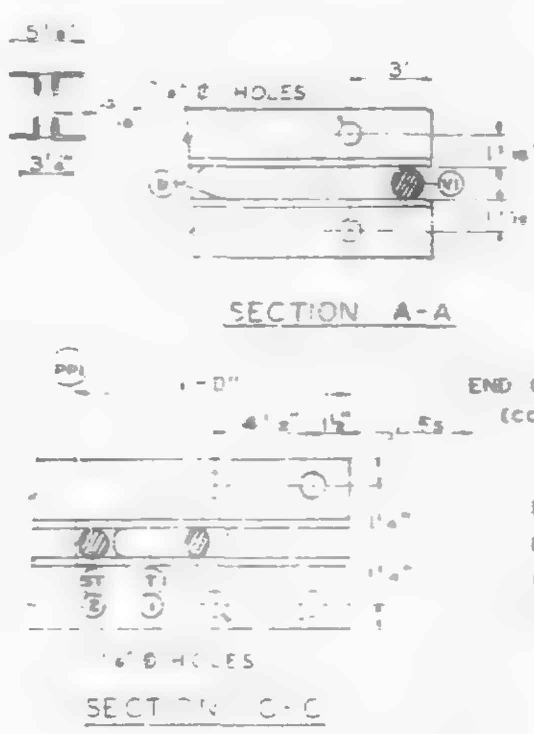
TRUSS ELEVATION

ALL PANEL POINTS RESISTANCE WELDED (R-1) ARE WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. ALL WELD DETAILS SHOWN ON SHEETS ST290 AND ST291.

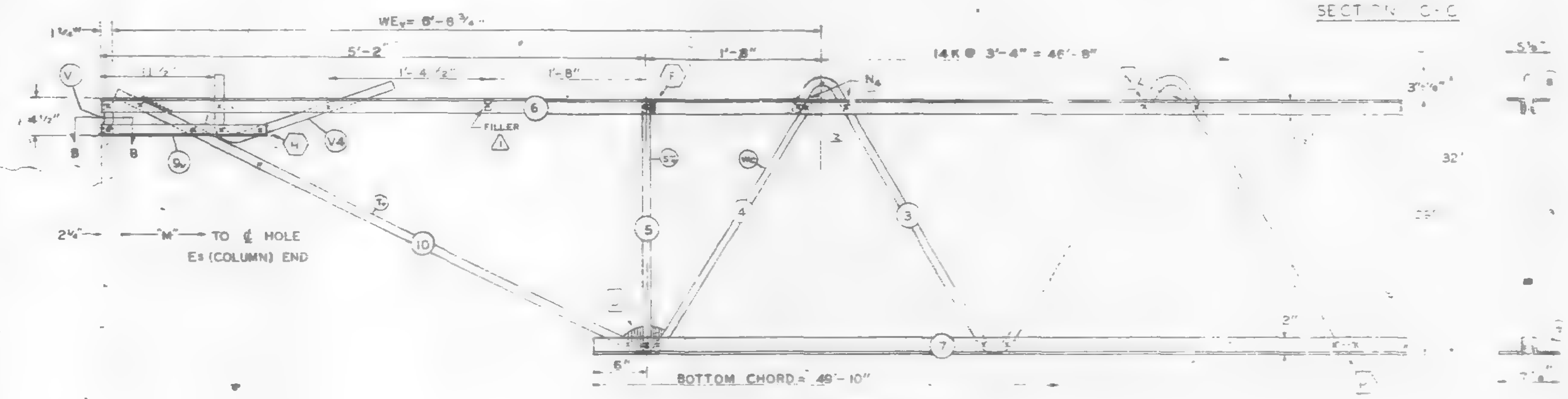
SEE SHEET ST295 FOR V1, V2, & V4 DETAILS. LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e., (A). LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., [R-2].



Es END (COLUMN)



DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



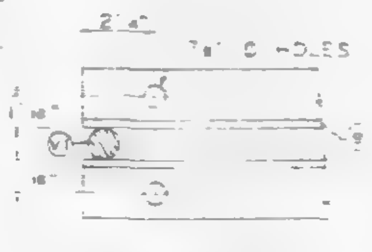
EL END (CORE)

2	2-11-69	AS NOTED
1	3-19-68	FILLER AND WELD DETAIL
NO.	DATE	REVISION

2 REF. DRWGS.

7-AB1-2	7-22-68
7-AB1-52	2-8-68
7-AB4-50	8-1-68
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001



TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C-C HOLES	TRUSS DATA
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA		
C32T18-5985	6	A242	2"x1 1/2"x.25"	59'-8 1/2	7	A36	3"x2"x.37"	49'-10"	3	A36	1.09	88'-11"	14 @ 3'-4" = 46'-8"	1	1.09	59'-3 1/4"	

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3		
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
	C32T18-5985	9	A242	2"x1 1/2"x.25"	1'-10"	6'-1 1/4"	1	A242	1.14	6'-5"	2	A36	1.09	2'-4 7/8"	A242	1.14	4 3/8"	A2[illegible]	[illegible]	2'-9 1/2"

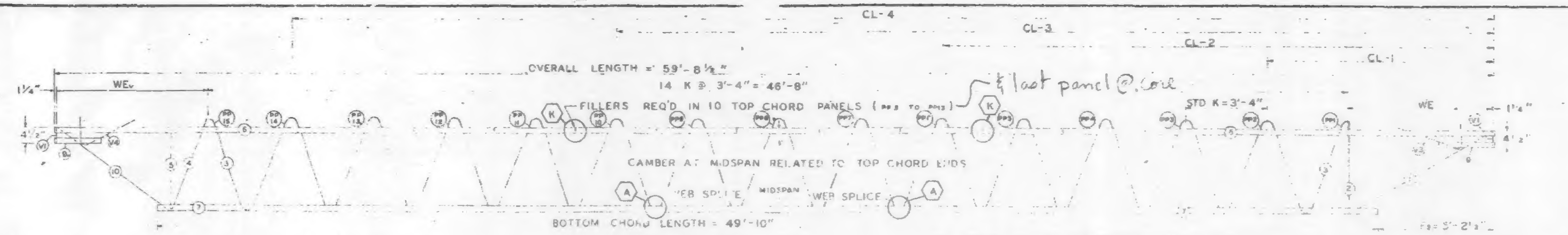
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "WC"					WEB "WT"				
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH
	C32T18-5985	9	A242	2"x1 1/2"x.25"	[illegible]-5"	6'-8 3/4"	10	A242	1.14	5'-6 1/8"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	—	—	—	A242	1.14	2'-2 1/2"	4	A242	1	1.14	[illegible]	—	—	—	—	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C32T18 59'-8 1/2" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-2 7-AB4-2 - PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A.	DATE	DRAWN BY: DATE:
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY: DATE:
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONT. NO. W.T.C. 221



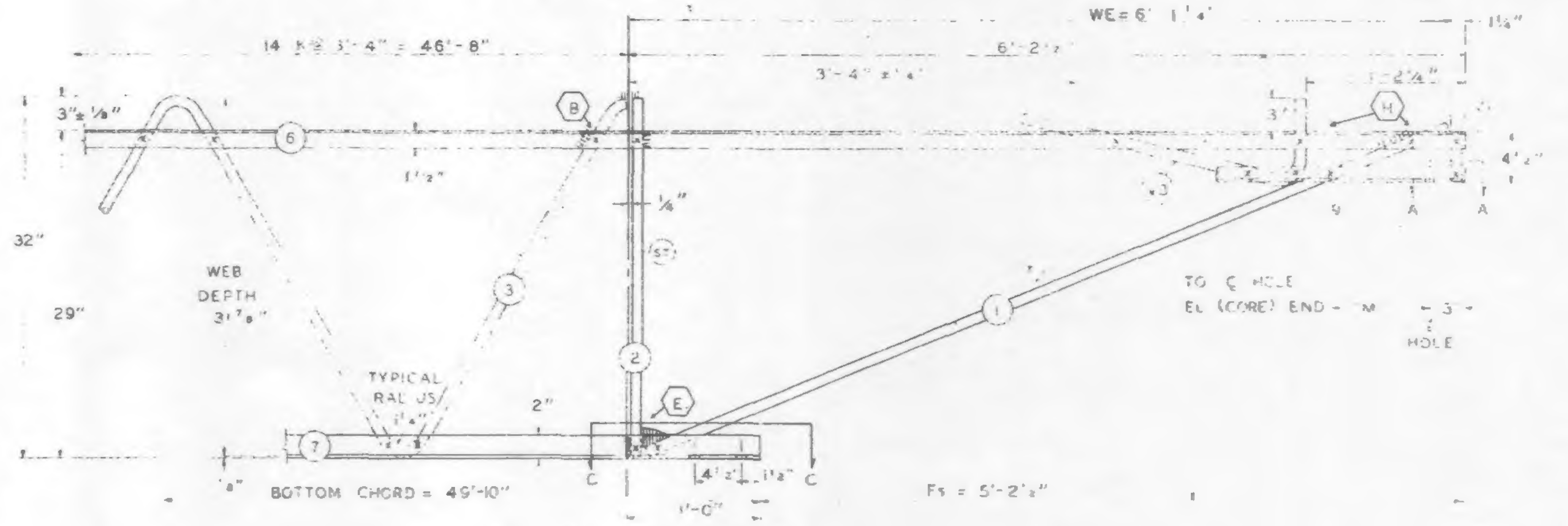
El END (CORE)

TRUSS ELEVATION

Es END (COLUMN)

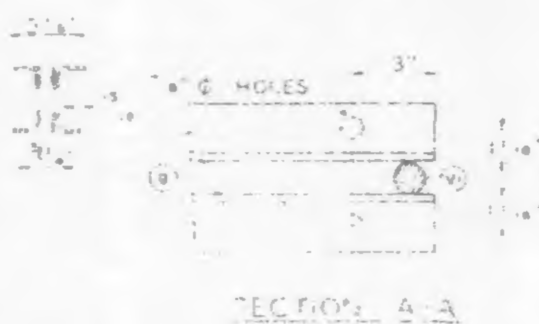
ALL PANEL POINTS RESISTANCE WELDED (v).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD & WEB SPLICES (HH).

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-	± 1/4"
OVERALL LENGTH	59'-8½"	± 3/8
WEB DEPTH	31 7/8"	± 1/4



Es END (COLUMN)

ALL WELD DETAILS SHOWN ON SHEETS ST290 AND ST291.
BOXED IN LETTERS INDICATE WELD DETAIL, i.e. (A)

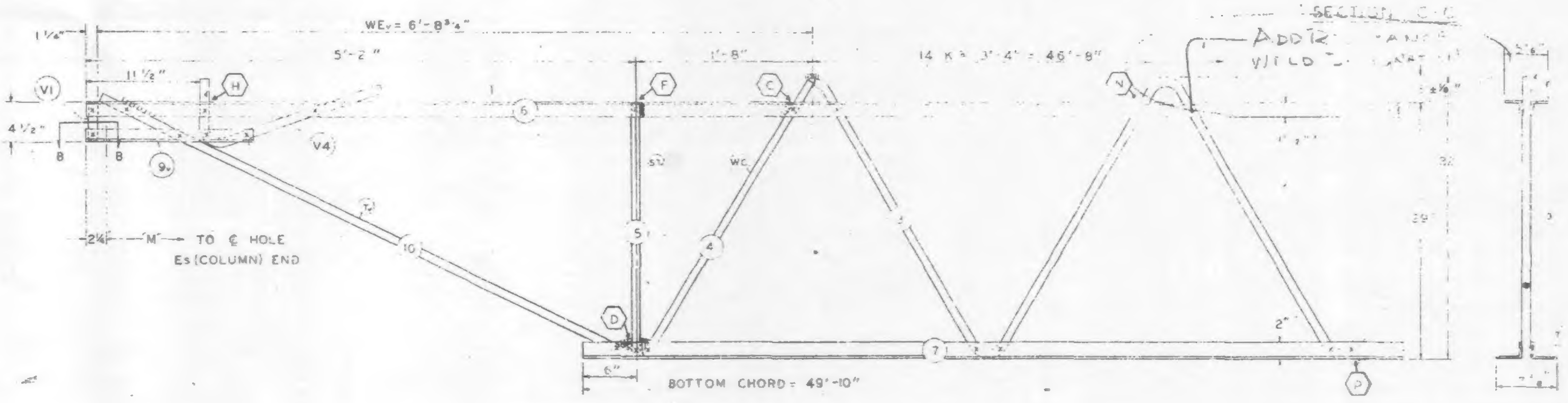


SECTION A-A

END OF TRUSS (COLUMN)

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD ... IN FIELD ASSEMBLY BY CONTRACT WTC 223.00

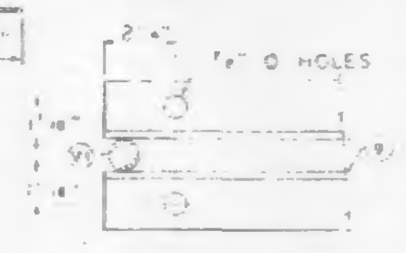
SECTION C-C



El END (CORE)

REF DRWGS.

7-AB1-2	2-15-68
7-AB1-52	2-15-68
7-AB1-53	1-3-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67



SECTION B-B

PAINT

LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" C-C HOLES	TRUSS	DATA
C32T1B-598.5	6	A242	2"x1½"x.25	59'-8½"	7	A36	3"x2"x.37	49'-10"	3	A36	1.09	87'-2½"	14 @ 3'-4" = 46'-8"	10	1.09	59'-3¼"		

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH
	C32T1B-598.5	9	A242	2"x1½"x.25	1'-10"	6'-1¼"	1	A242	1.14	6'-5"	2	A36	1.09	2'-7⅞"	A242	1.14	4⅜"	A[illegible]	[illegible]14	2'-9½"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "STv" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T1B-598.5	9	A242	2"x1½"x.25	1'-6"	6'-8¾"	10	A242	1.14	5'-6⅛"	5	A242	1.14	2'-4¾"	A242	1.14	4⅜"	—	—	—	A242	1.14	2'-2½"	4	A242	1	1.14	3'-0½"	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

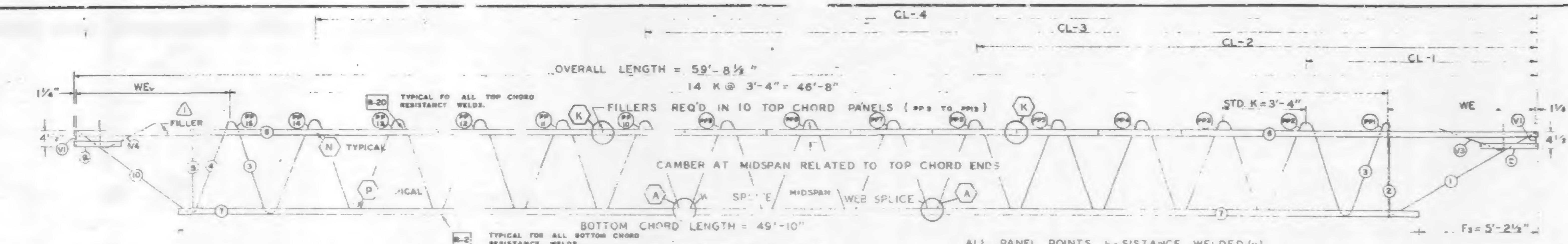
3/22/68 SK

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T1B 59'-8½" OVERALL
WORLD TRADE CENTER TOWERS A - B

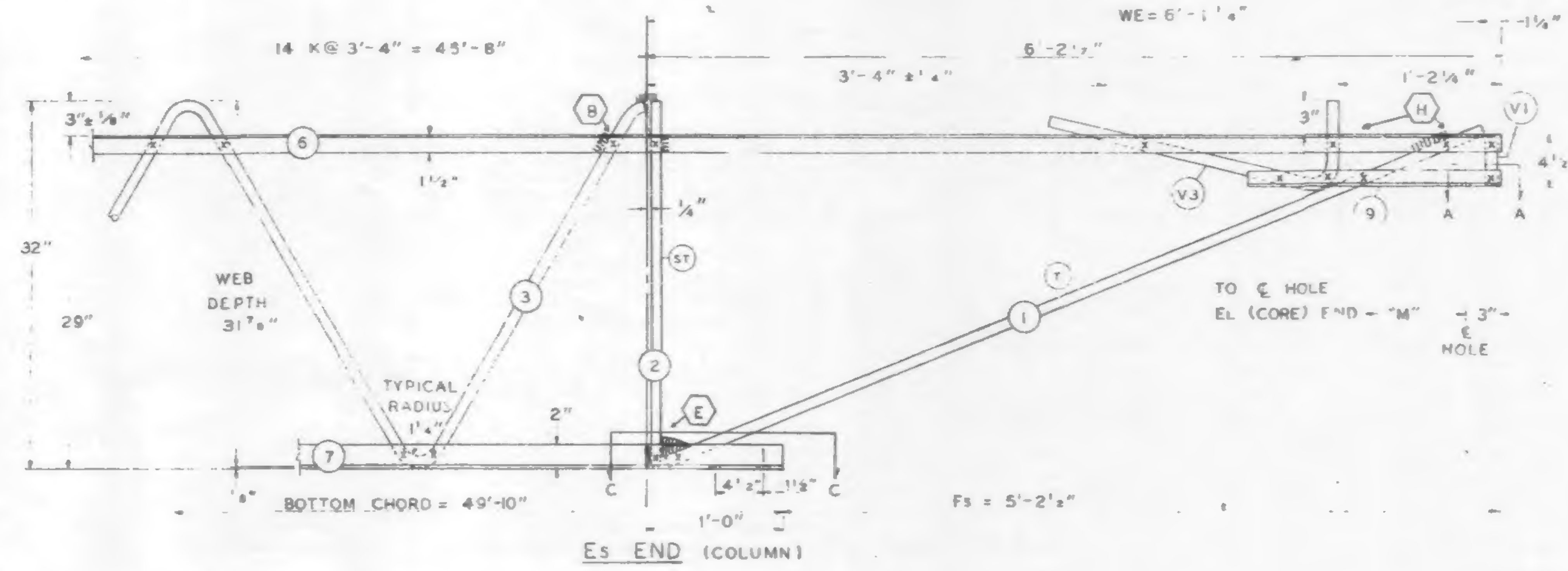
FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-2 7-AB3-2	PLATE
APPROVED FOR FABRICATION BY FOR PONYA	DATE	DRAWN BY L.E. DATE: FEB. 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE FEB. 24, 1968	IN CHARGE OF PROD DEV
LACLEDE STEEL CO. DETAILED BY A.C. WEBER		FABRICATION CONT. NO W.T.C. 221	SHEET NO ST2018

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	28"	1/4"
PANEL "K"	3'	± 1/4"
OVERALL LENGTH	59'-8½"	± 3/8"
WEB DEPTH	31 7/8"	± [illegible]

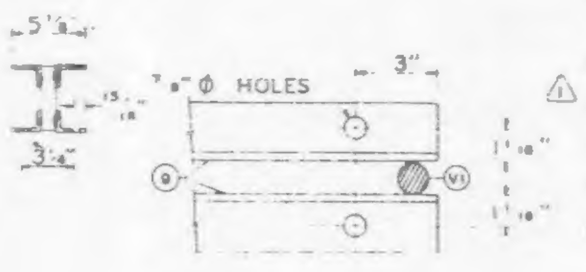


EL END (CORE) TRUSS ELEVATION Es END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED (x). ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.



Es END (COLUMN)



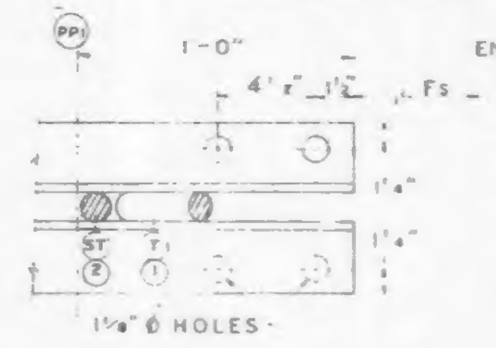
SECTION A-A

ALL WELD DETAILS SHOWN ON SHEETS ST290 AND ST291.

SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.

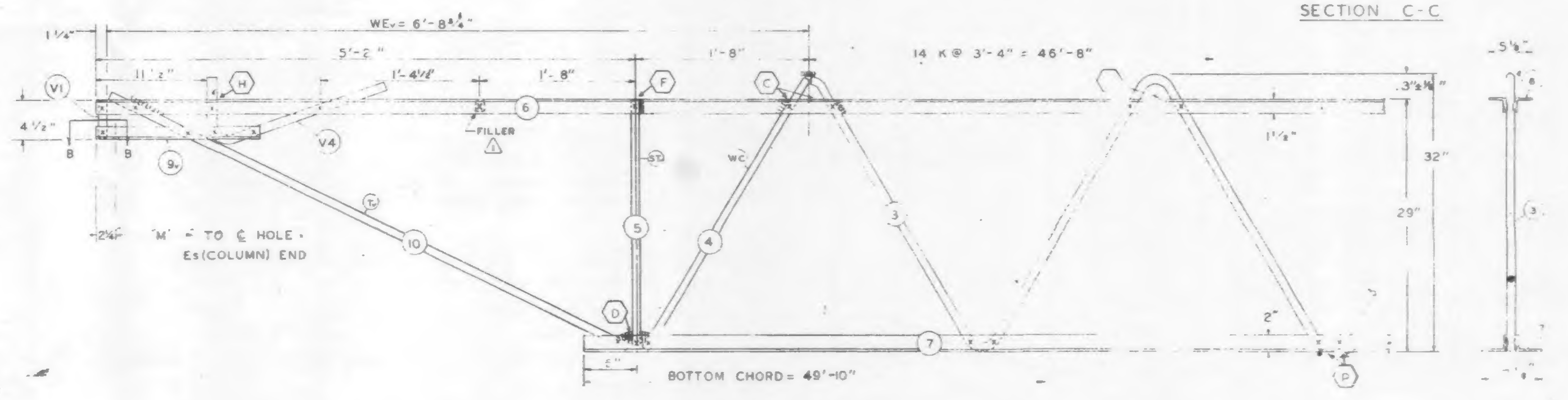
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e. (A).

LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. R-2.

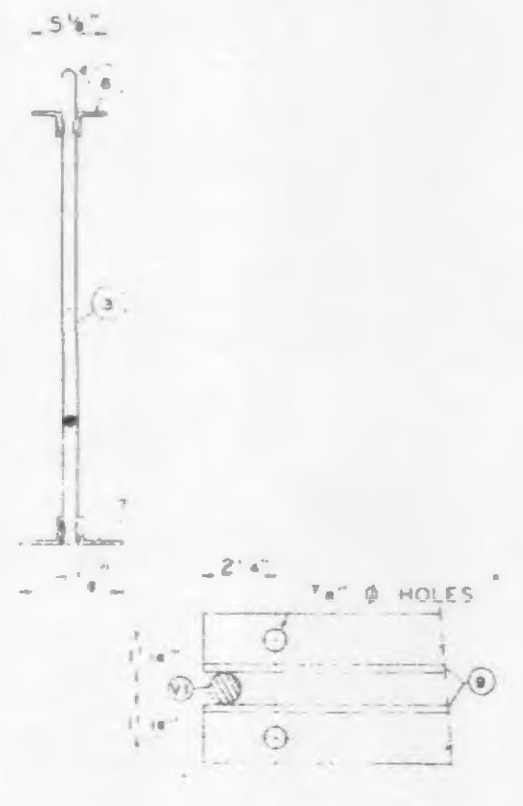


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY
1	3-19-68	FILLER AND WELD DETAIL.	J.R.R.

REF DRWGS.

7-AB1-2	2-15-68
7-AB1-52	2-15-68
7-AB1-53	1-3-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB4-50.3	10-20-67

PAINT

LACLEDE ELECTROCOAT RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" ℄ ℄ HOLES	TRUSS DATA
C32T18-5985	6	A242	2"x1½"x.25	59'-8½"	7	A36	3"x2"x.37	49'-10"	3	A36	1.09	87'-2½"	14 @ 3'-4" = 46'-8"	1	1.09	59'-3¼"	

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3	LENGTH
C32T18-5985	9	A242	2"x1½"x.25	1'-10"	6'-1¼"	1	A242	1.14	5'-5"	2	A36	-	2'-7⅞"	A242	1.14	[illegible]	[illegible]	[illegible]

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER [illegible]	MK V4 DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T18-5985	8	[illegible]	[illegible]	[illegible]	[illegible]	10	A242	1.14	5'-5"	5	[illegible]	[illegible]	2'-[illegible]	[illegible]	1.14	2'-2"	4	A242	[illegible]	1.14	3'-0"	—	—	—	—	—

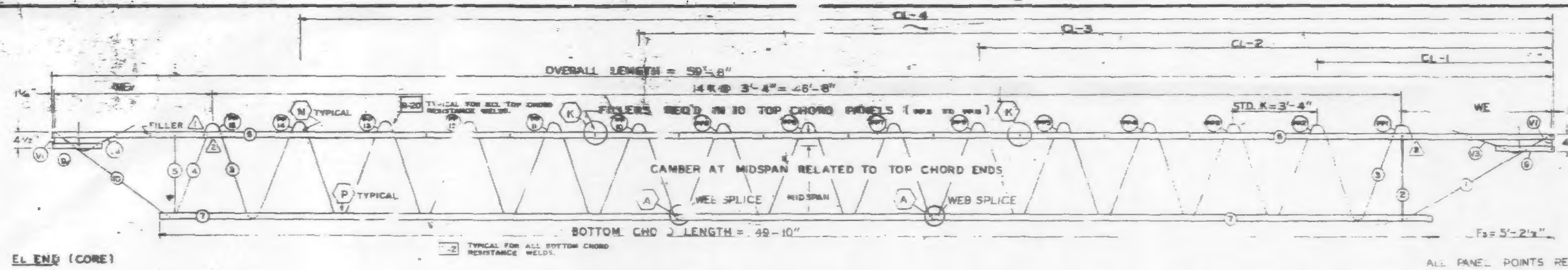
CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

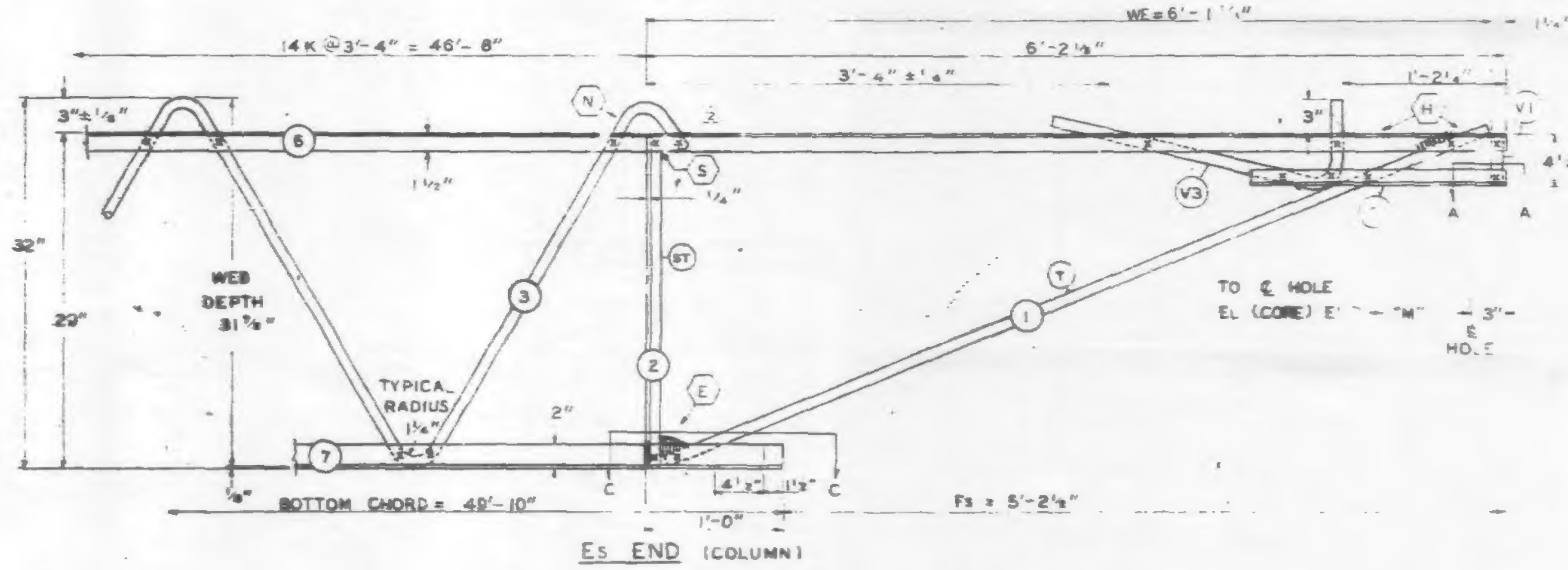
FLOOR TRUSS C32T18 59'-8½" OVERALL
WORLD TRADE CENTER TOWERS A - B

FABRICATION BY: LACLEDE STEEL COMPANY

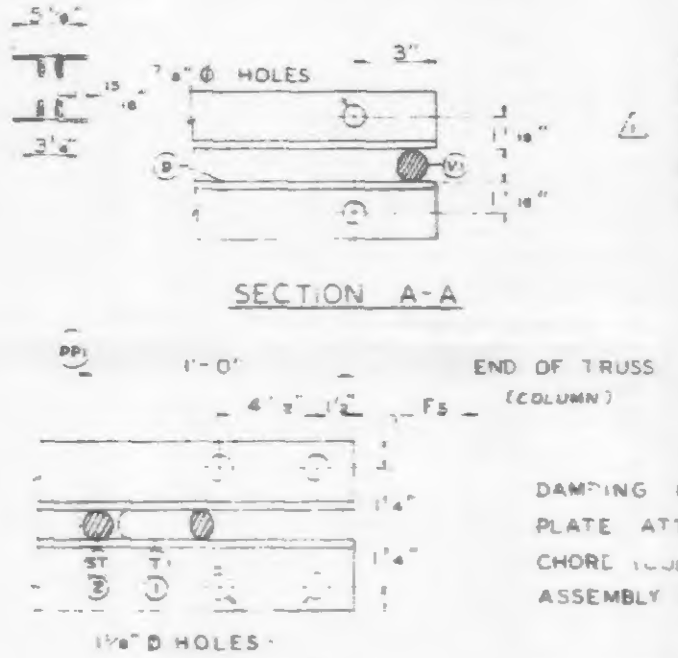
FABRICATED AT: MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-2 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY: ______ FOR P.O.N.Y.A. DATE 4/1/68	DRAWN BY L.R. DATE: FEB. 24, 1968
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE.	CHECKED BY J.S. BELL DATE. FEB. 24, 1968
DETAILED BY A. C. WEBER	FABRICATION CONT. NO. W.T.C. 221



TRUSS ELEVATION

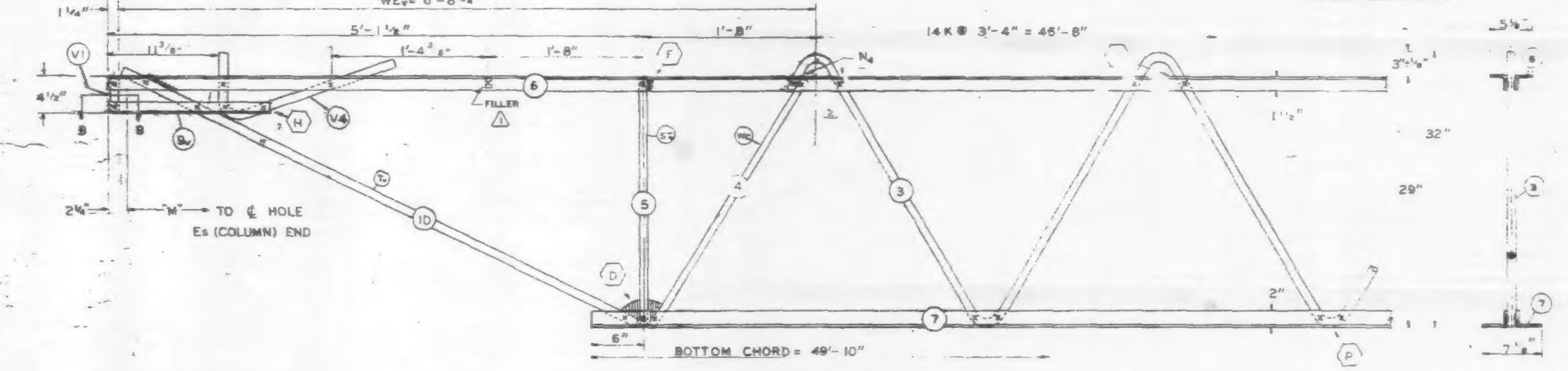


Es END (COLUMN)

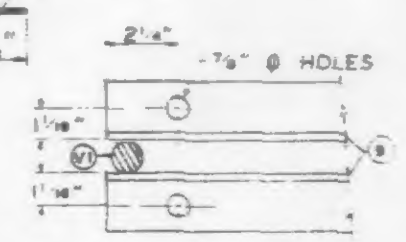


SECTION A-A

SECTION C-C



EL END (CORE)



SECTION B-B

ALL PANEL POINTS RESISTANCE WELDED ×.
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290 AND ST291.

SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., F-2.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.

NO.	DATE	REVISION
2	2-11-68	AS NOTED
1	3-19-68	FILLER AND WELD DETAIL

REF. DRWGS.

7-AB1-2	7-22-[illegible]
7-AB1-52	2-15-[illegible]
7-AB4-50	8-1-[illegible]
7-AB3-2	1-3-[illegible]
7-AB4-50.5	10-20-67
7-AB1-53	7-[illegible]

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	TRUSS DATA
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		
C32TIC-598	6	A242	2"x1½"x.25"	59'-8"	7	A36	3"x2"x.37"	49'-10"	3	A36	1.09	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.09	59'-2¾"	

COLUMN END

Es END: TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3		
	MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	A.	LENGTH
C32TIC-598	9	A242	2"x1½"x.25"	1'-10"	6'-1¼"	1	A242	1.14	6'-5"	2	A36	1.09	2'-4⅞"	A242	1.14	4⅜"	A242		9½"

CORE END

EL END: TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "Wc"					WEB "WT"					
	MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	PCS	DIA.	LENGTH	MK.	TYPE STEEL	PCS	DIA.	LENGTH
C32TIC-598	9	A242	2"x1½"x.25"	1'-6"	6'-8¼"	10	A242	1.14	5'-5½"	5	A242	1.14	2'-4⅞"	A242	1.14	4¾"	—	—	—	A242	1.14	2'-2½"	4	A242	1	1.14	2'-10"	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C32TIC 59'-8" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB1-2 7-AB3-2 PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 2/28/69
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE
DETAILED BY
FABRICATION CONT. NO. W.T.C. 221

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is missing.